

FIG. 1

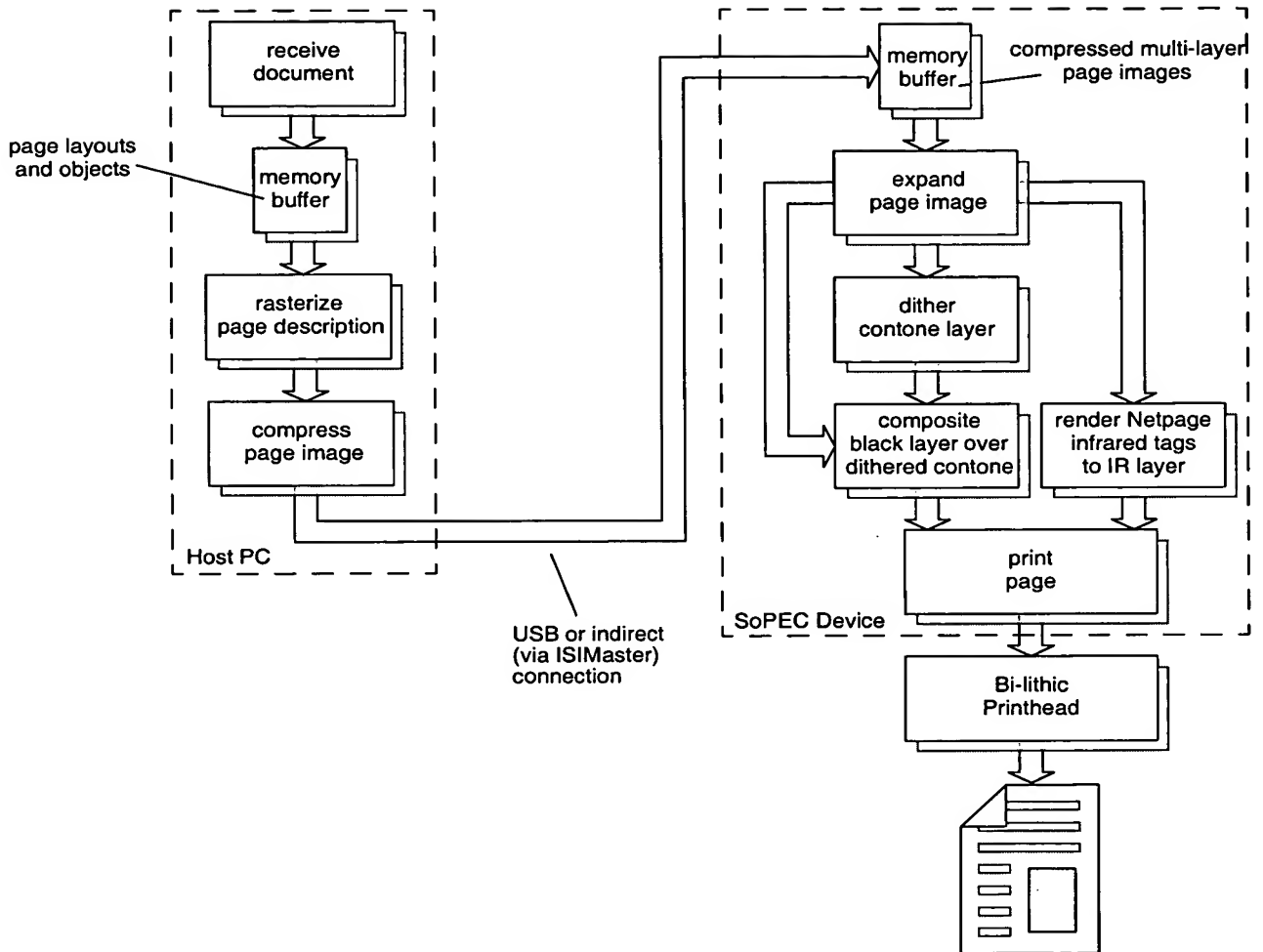


FIG. 2

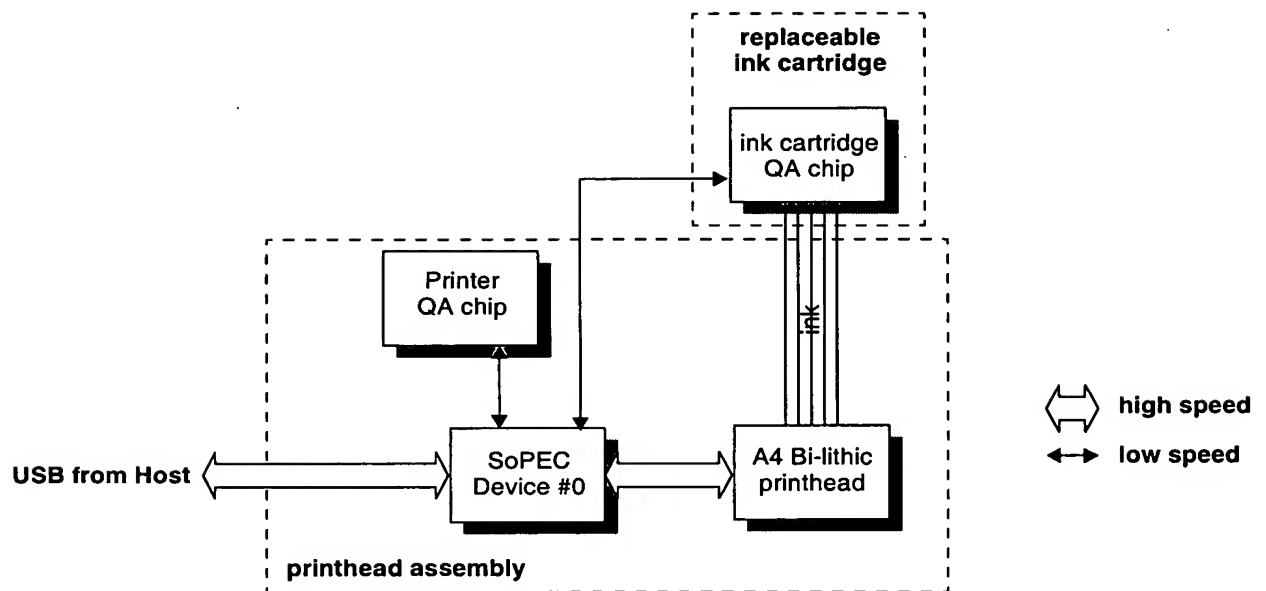


FIG. 3

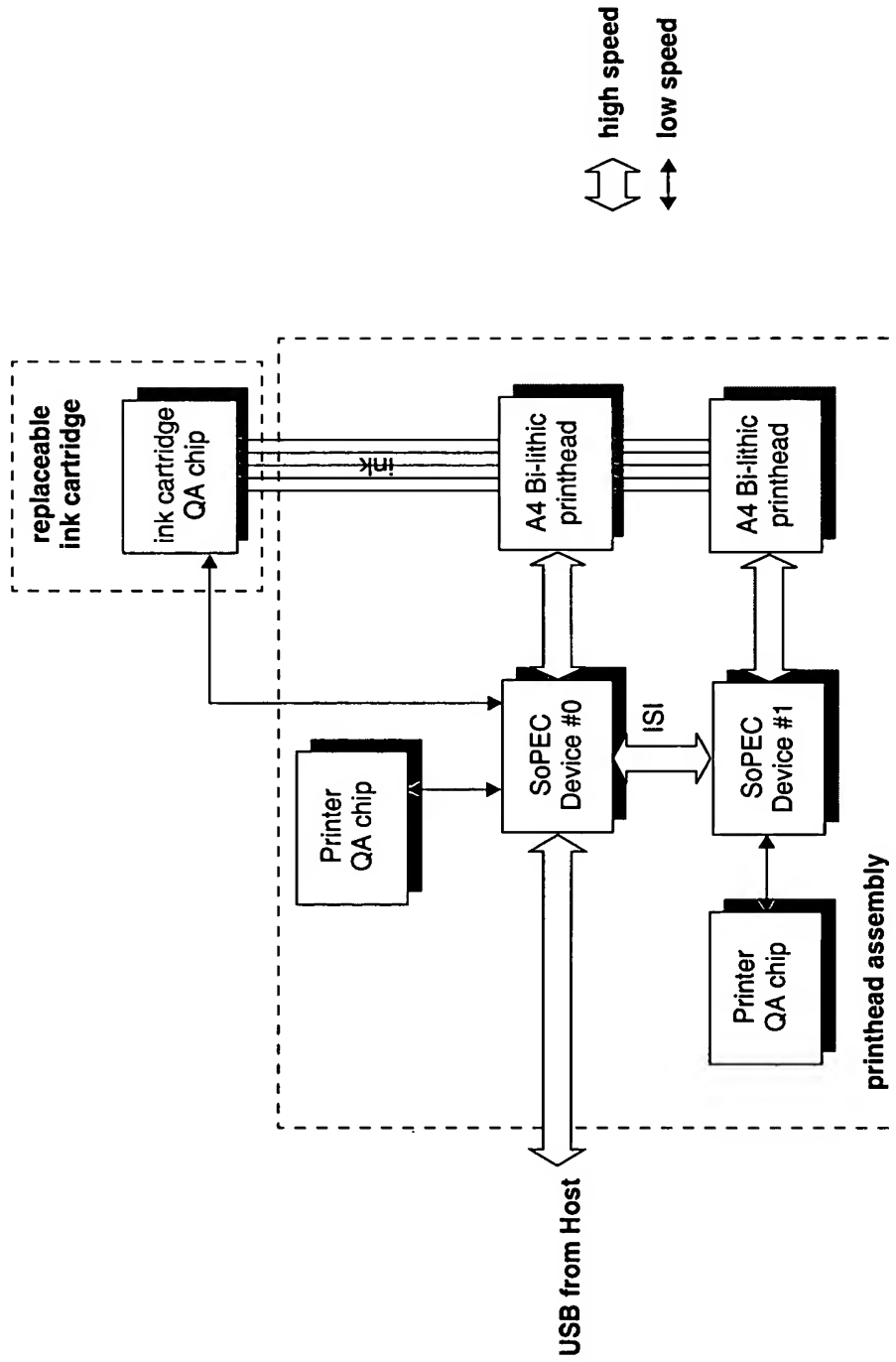


FIG. 4

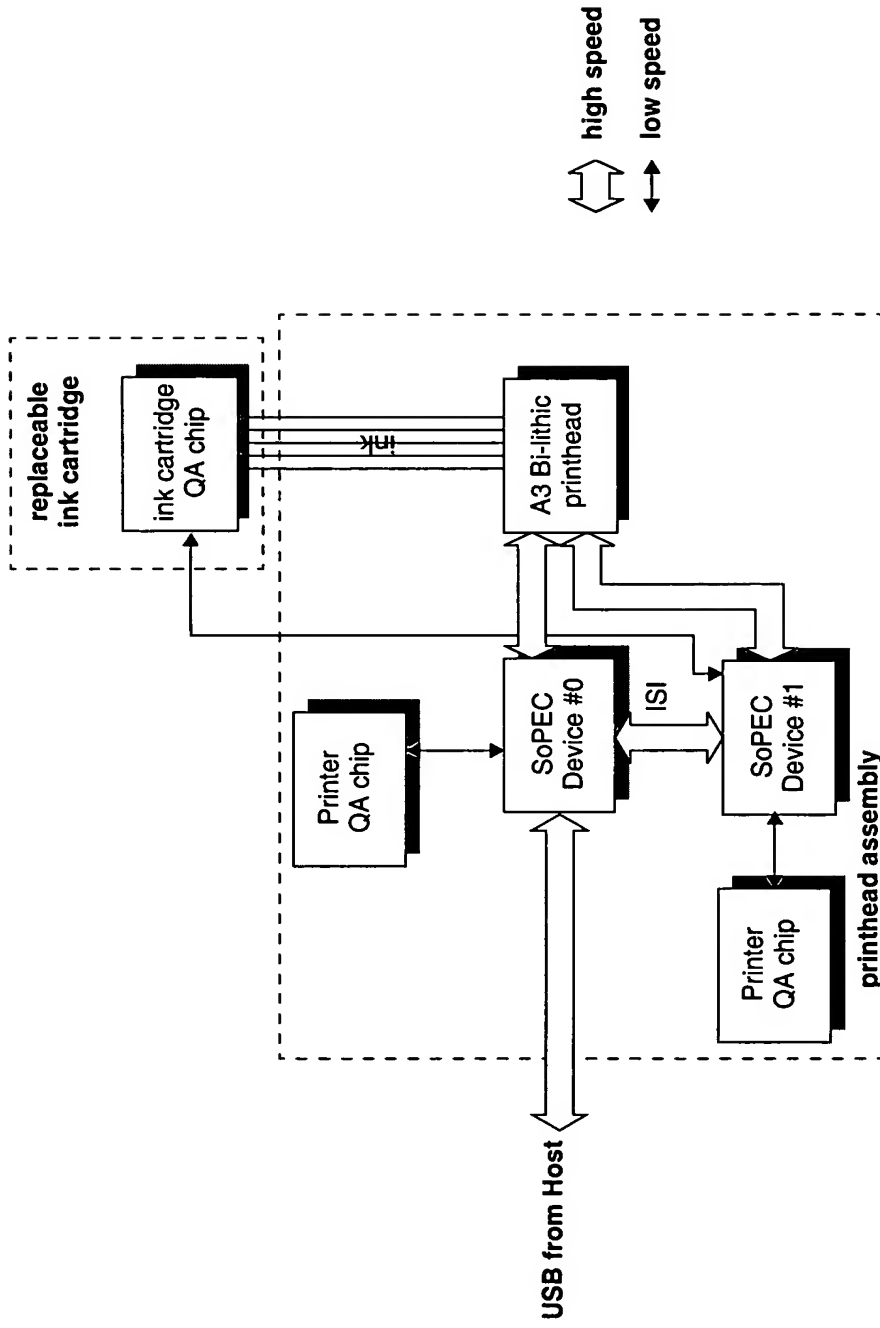


FIG. 5

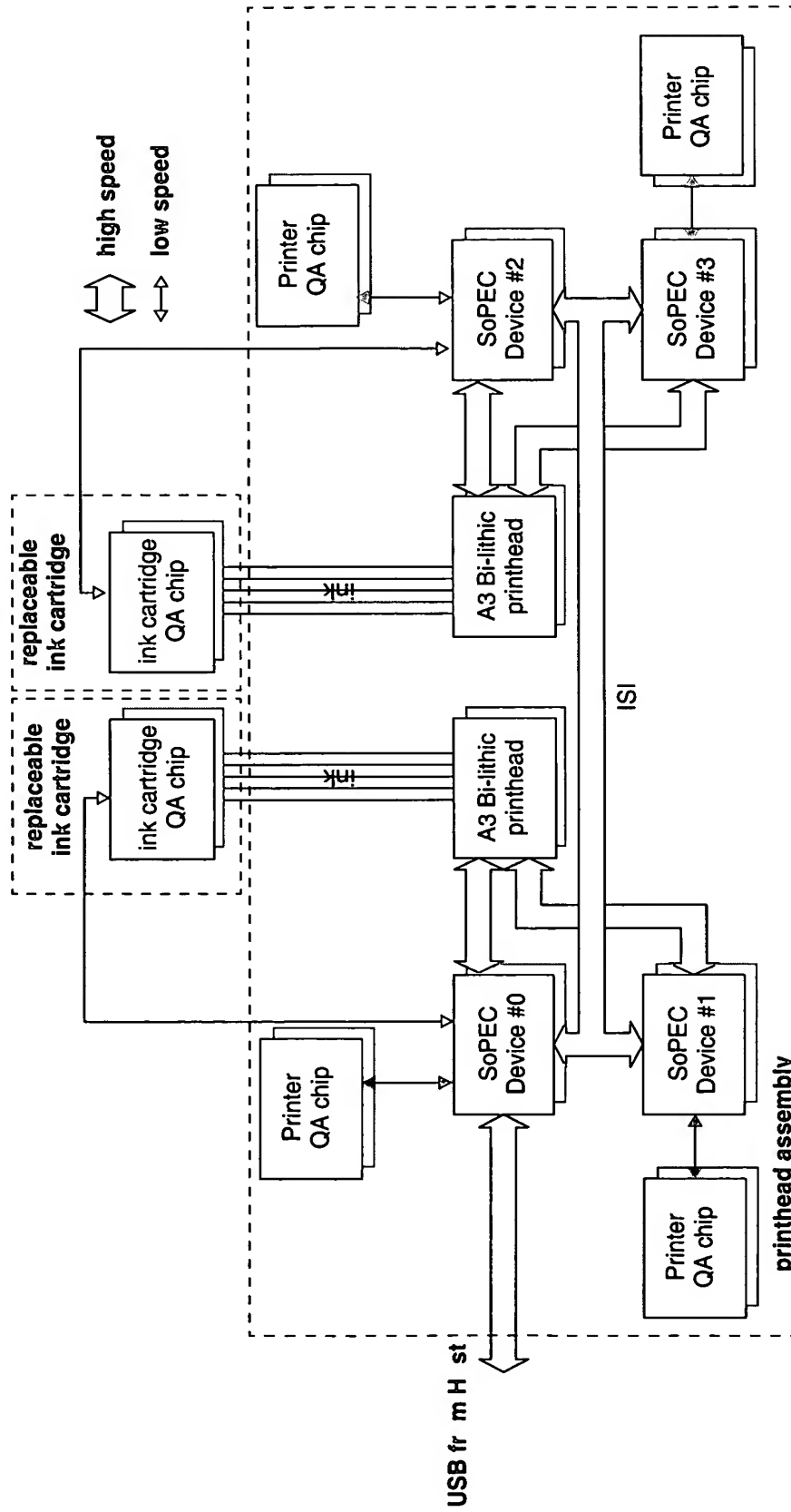


FIG. 6

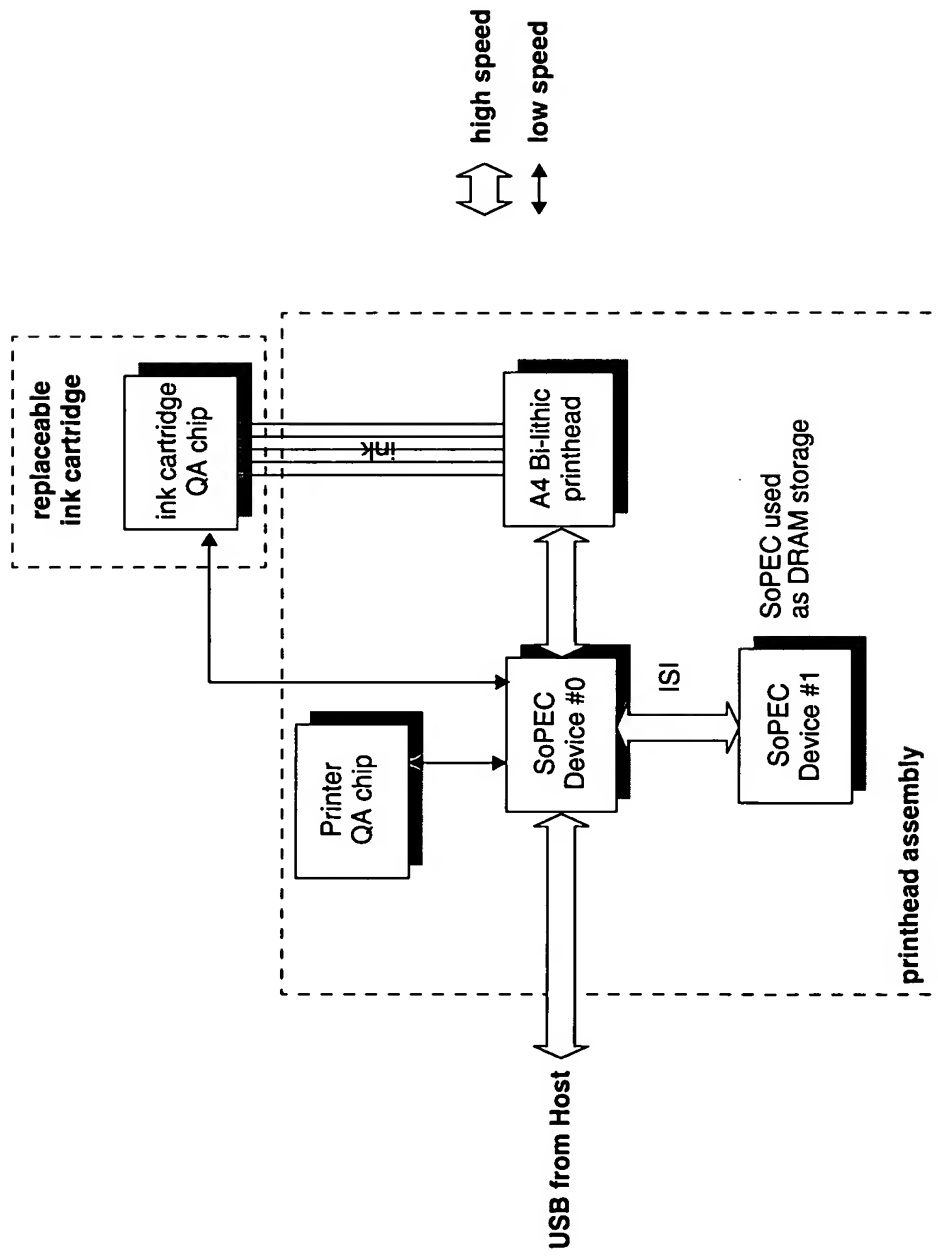


FIG. 7

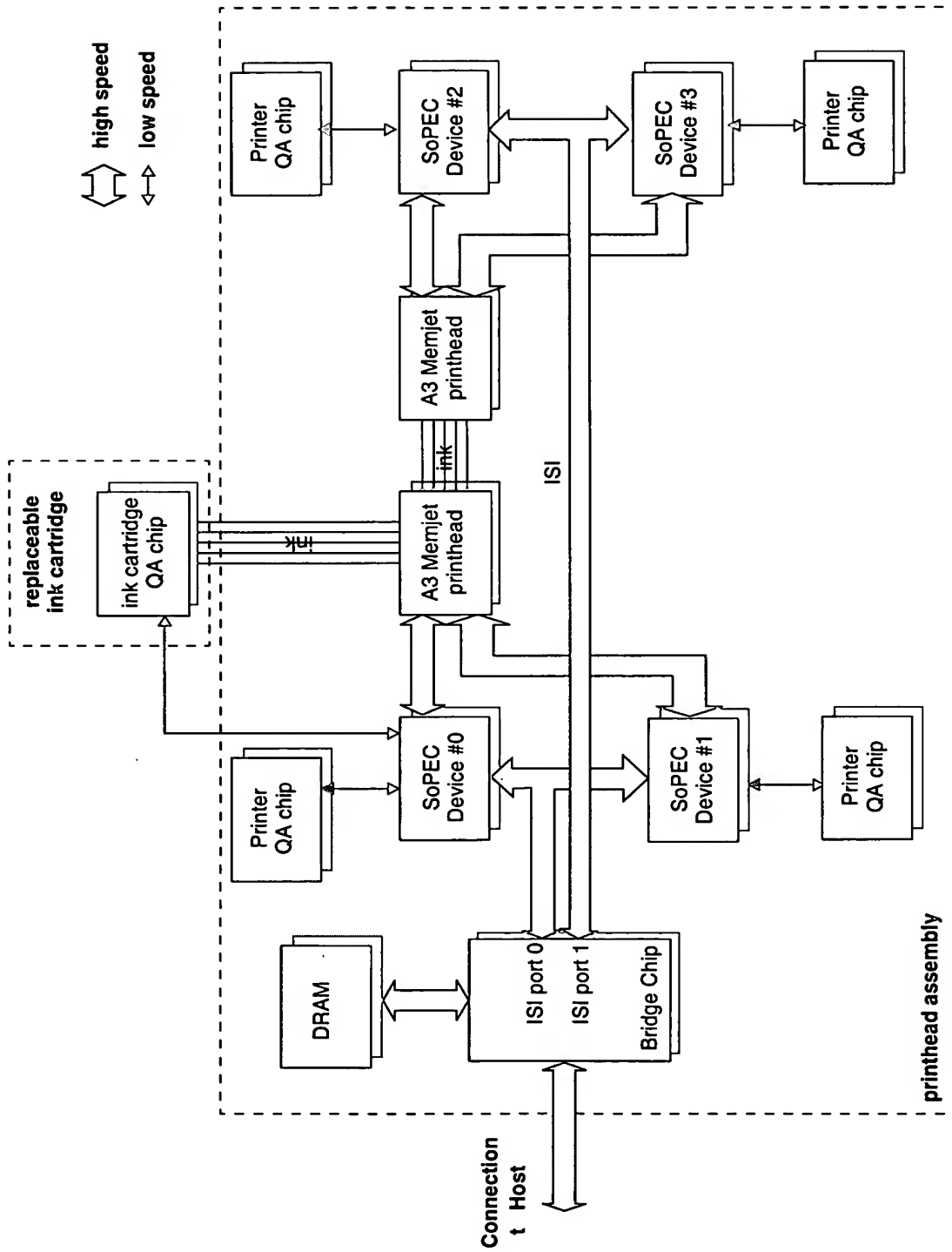


FIG. 8

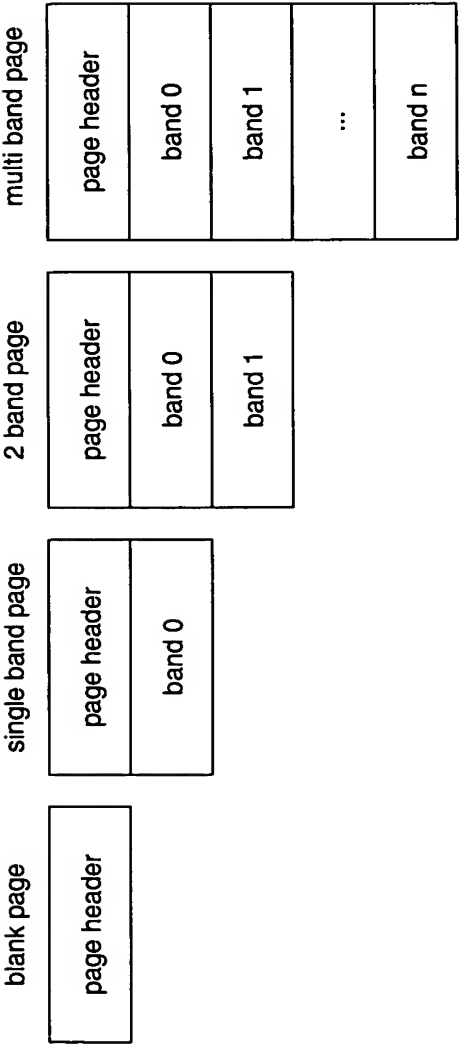


FIG. 9

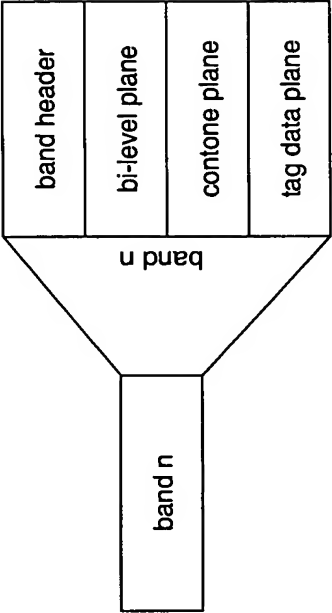


FIG. 10

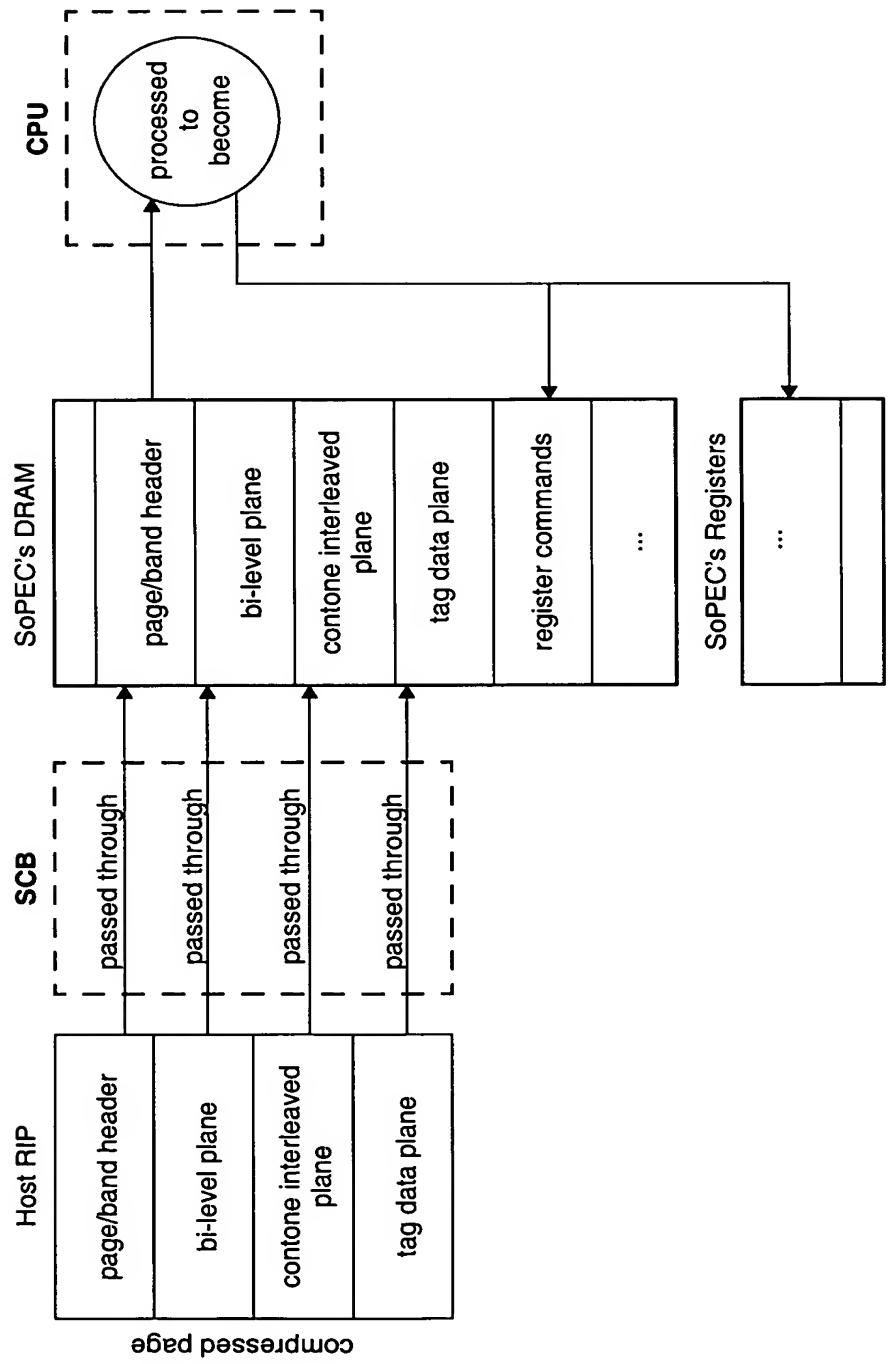


FIG. 11

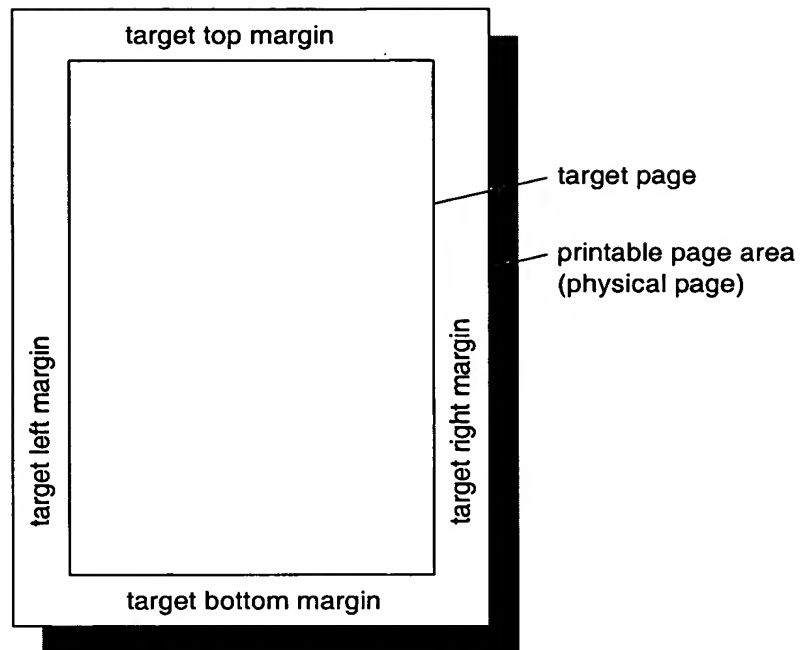


FIG. 12

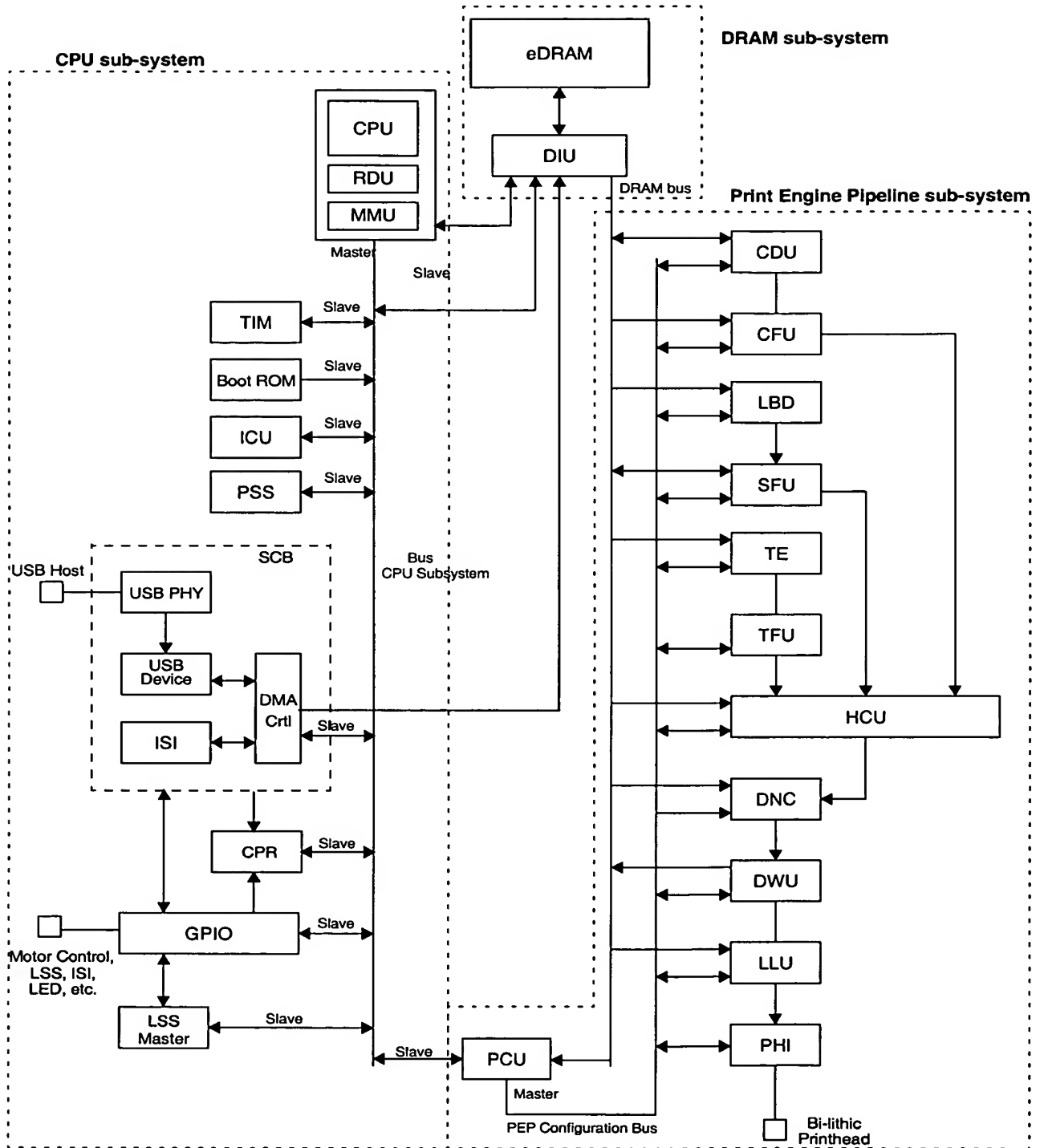


FIG. 13

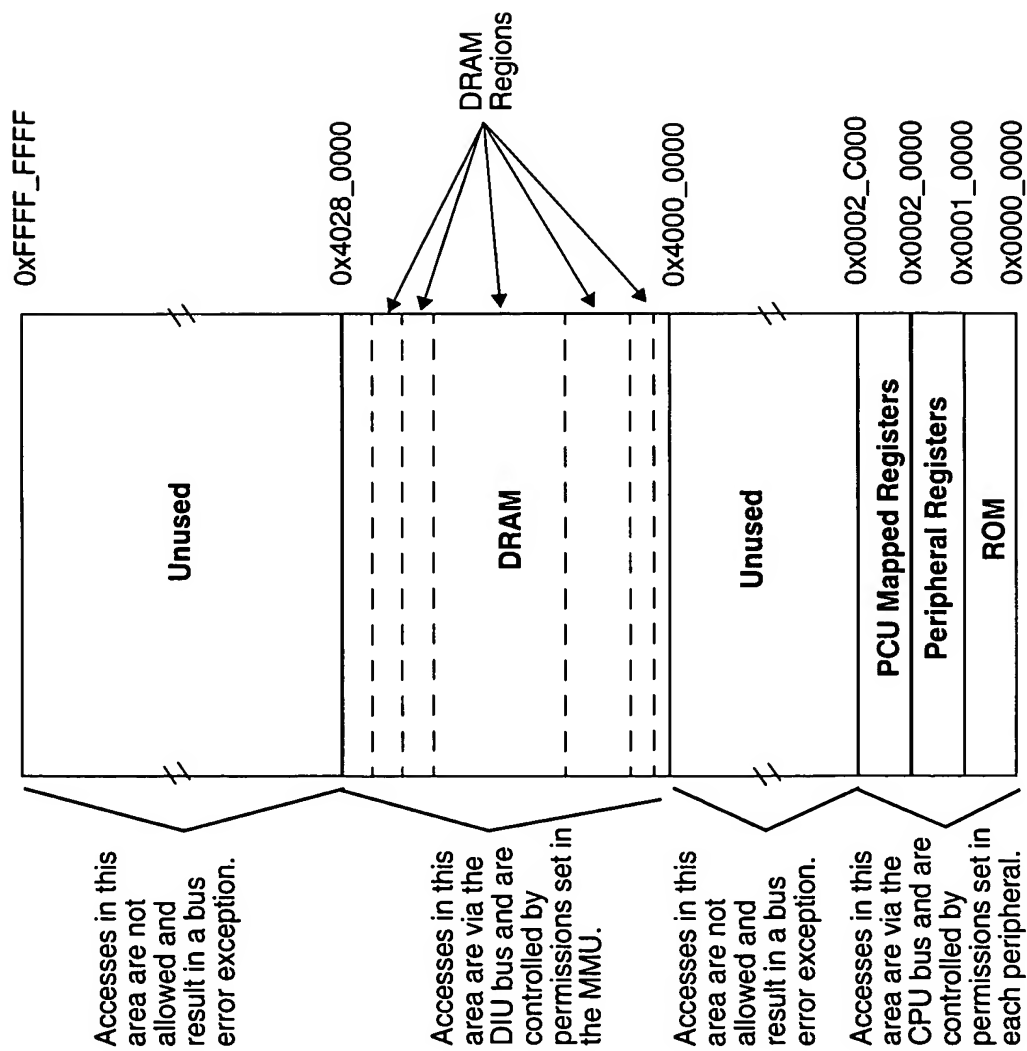


FIG. 14

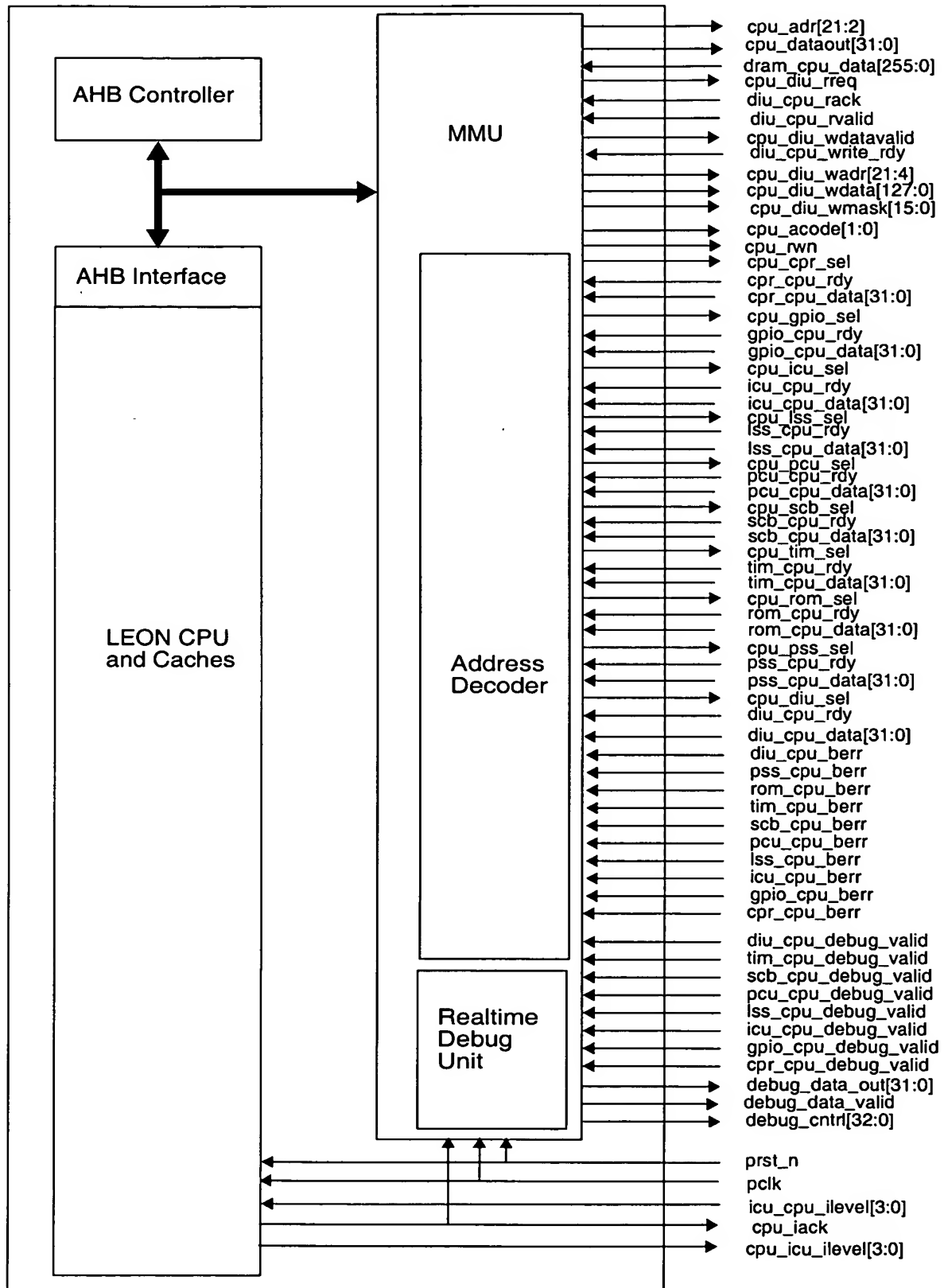


FIG. 15

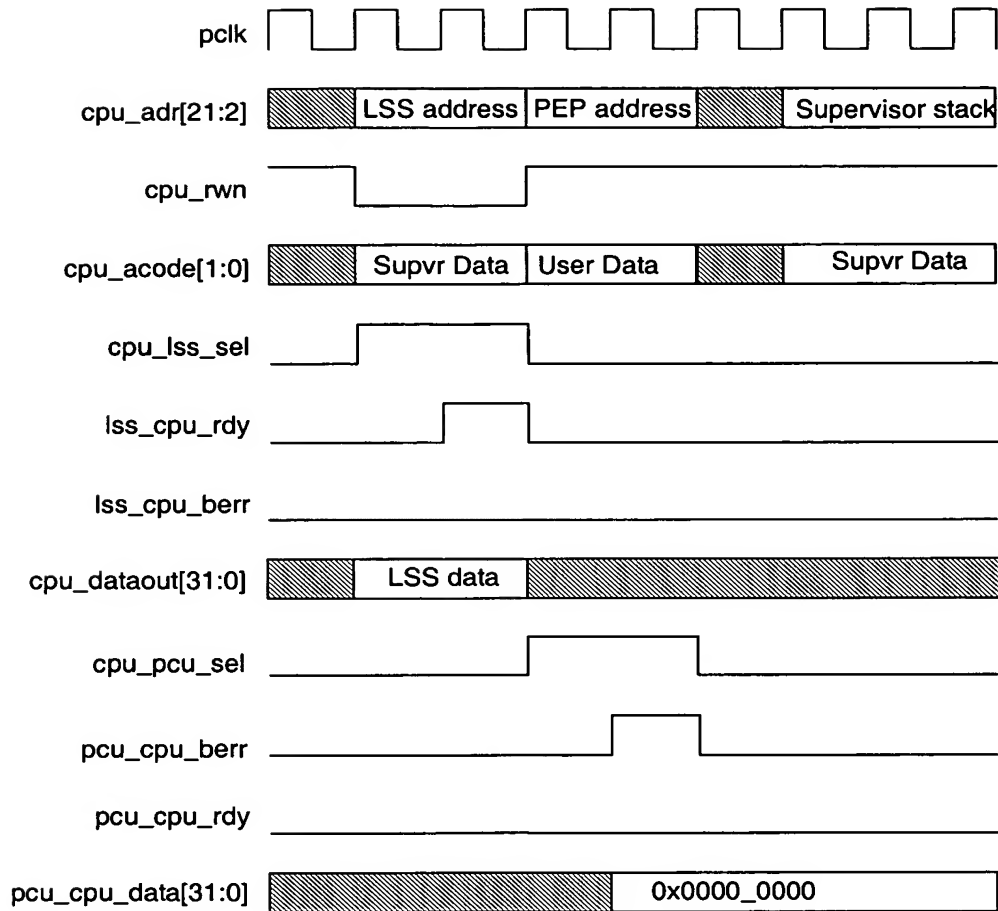


FIG. 16

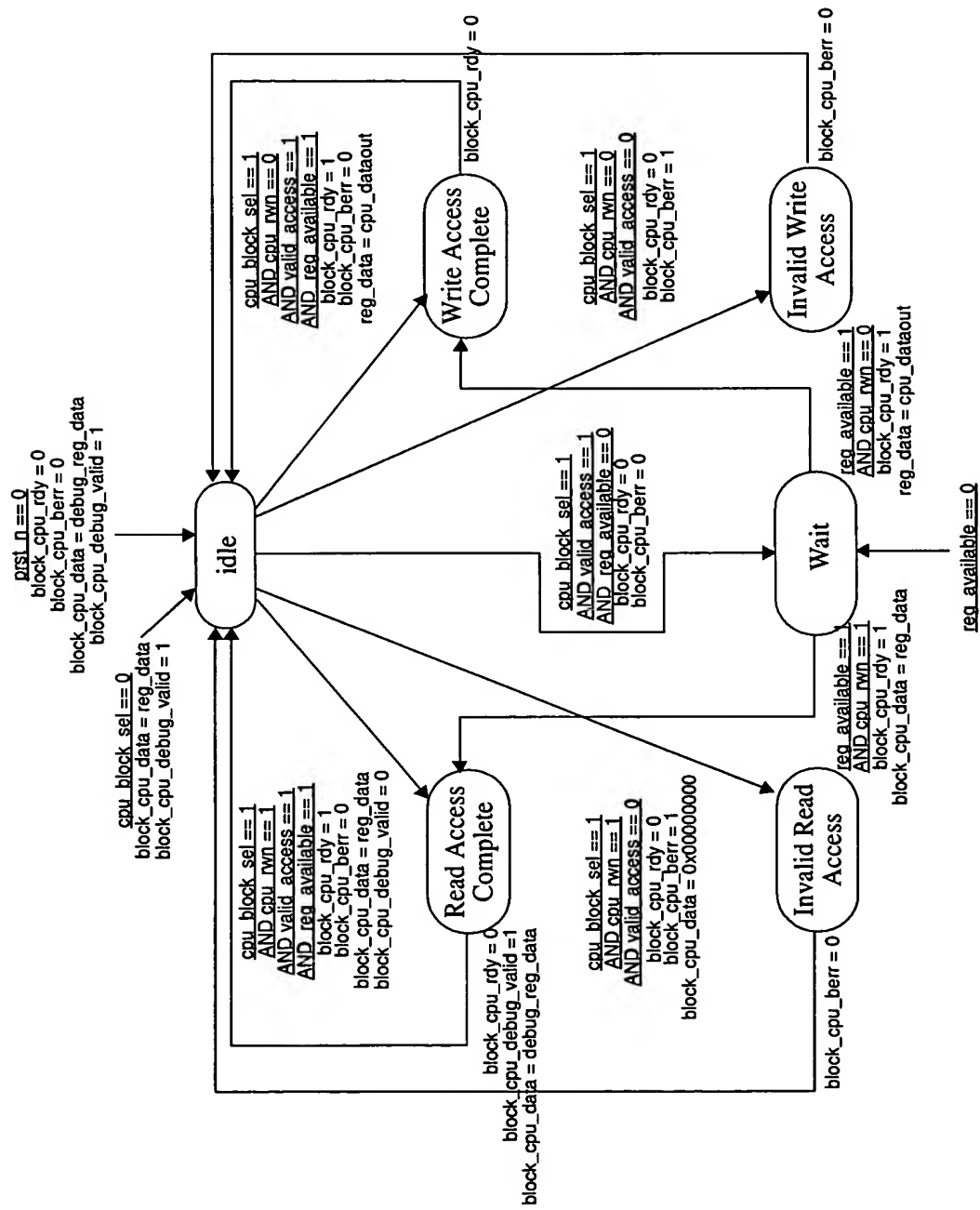


FIG. 17

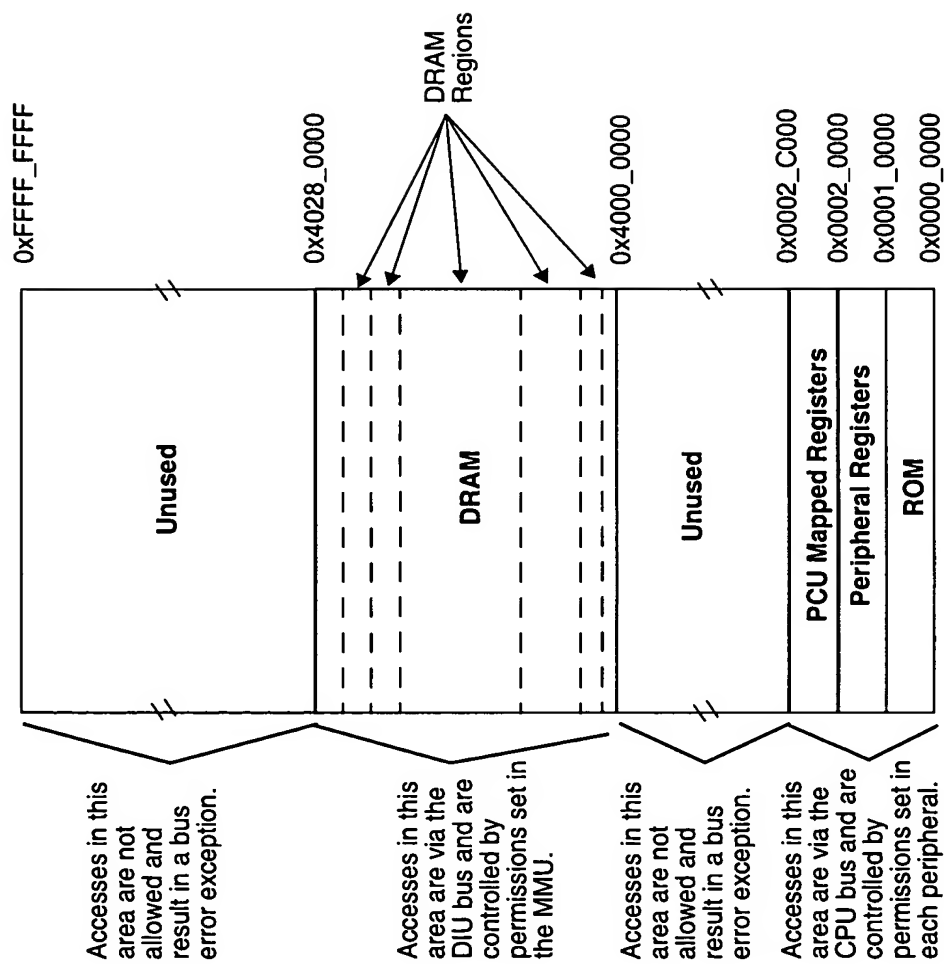


FIG. 18

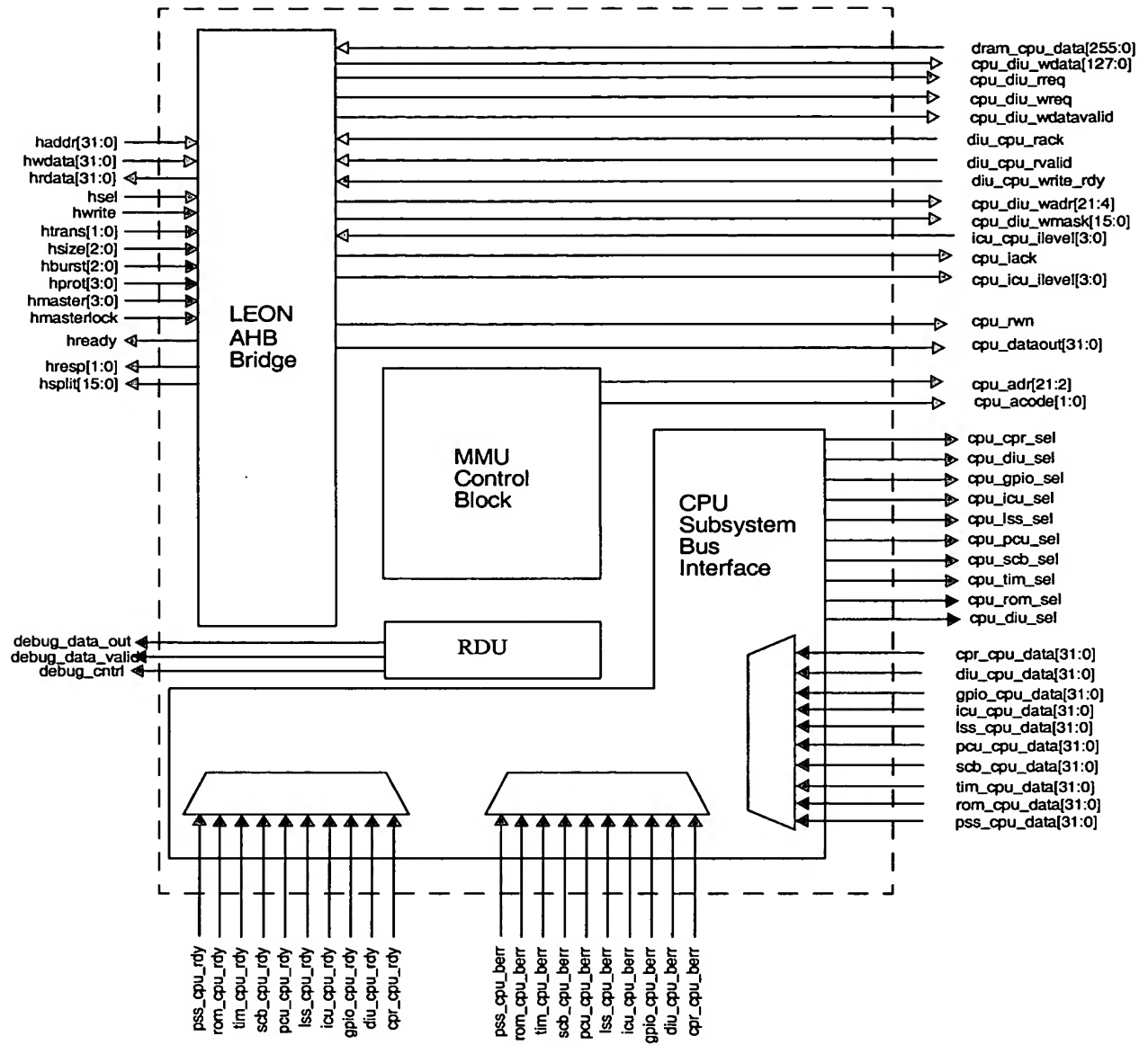


FIG. 19

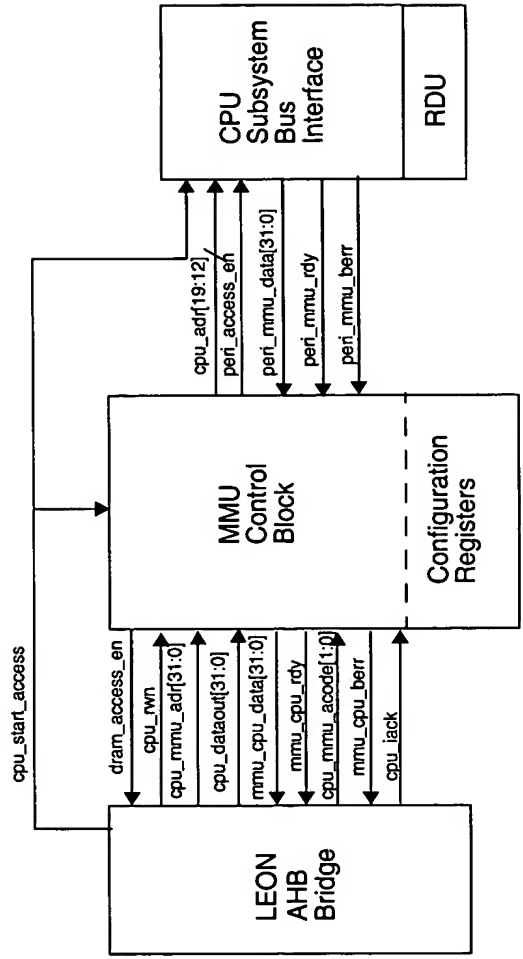


FIG. 20

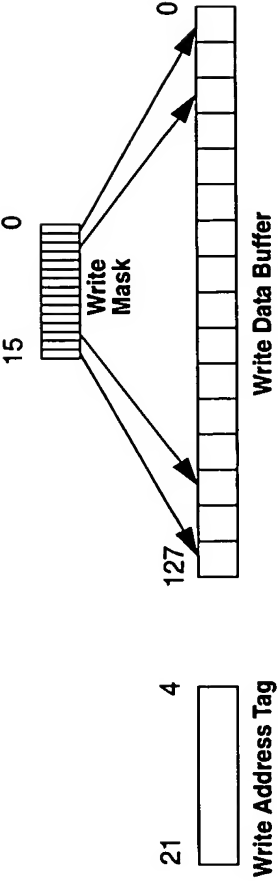


FIG. 21

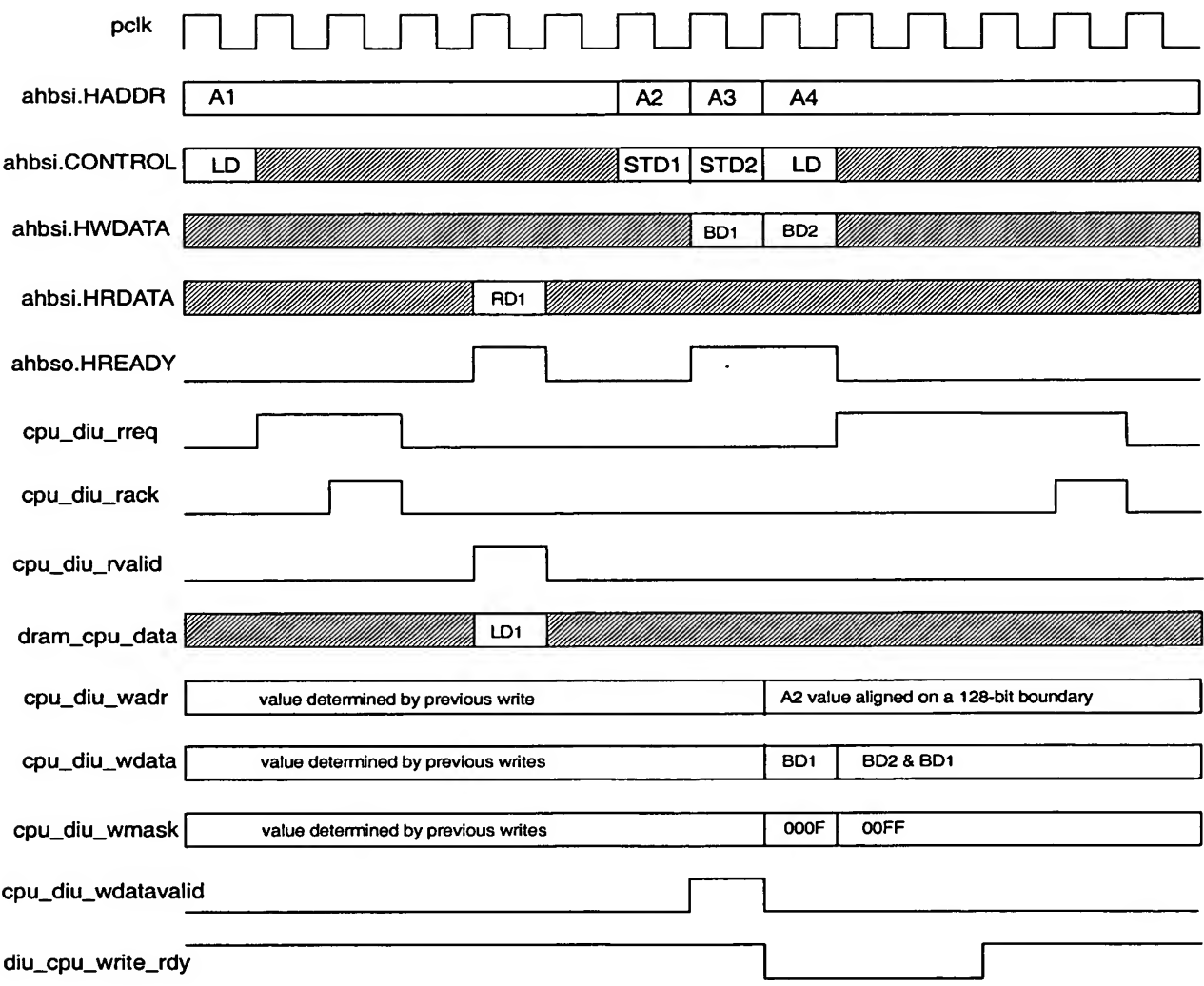


FIG. 22

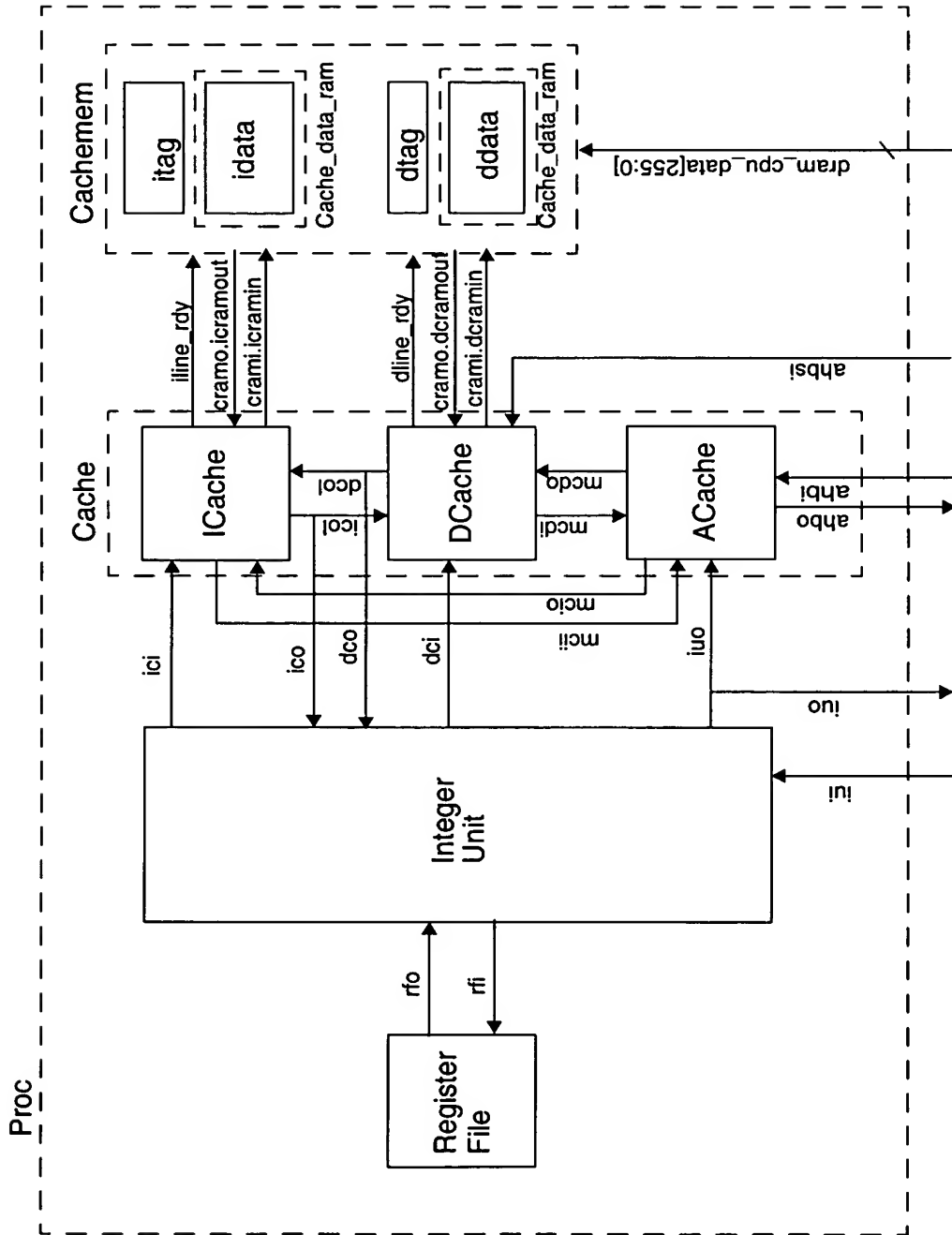


FIG. 23

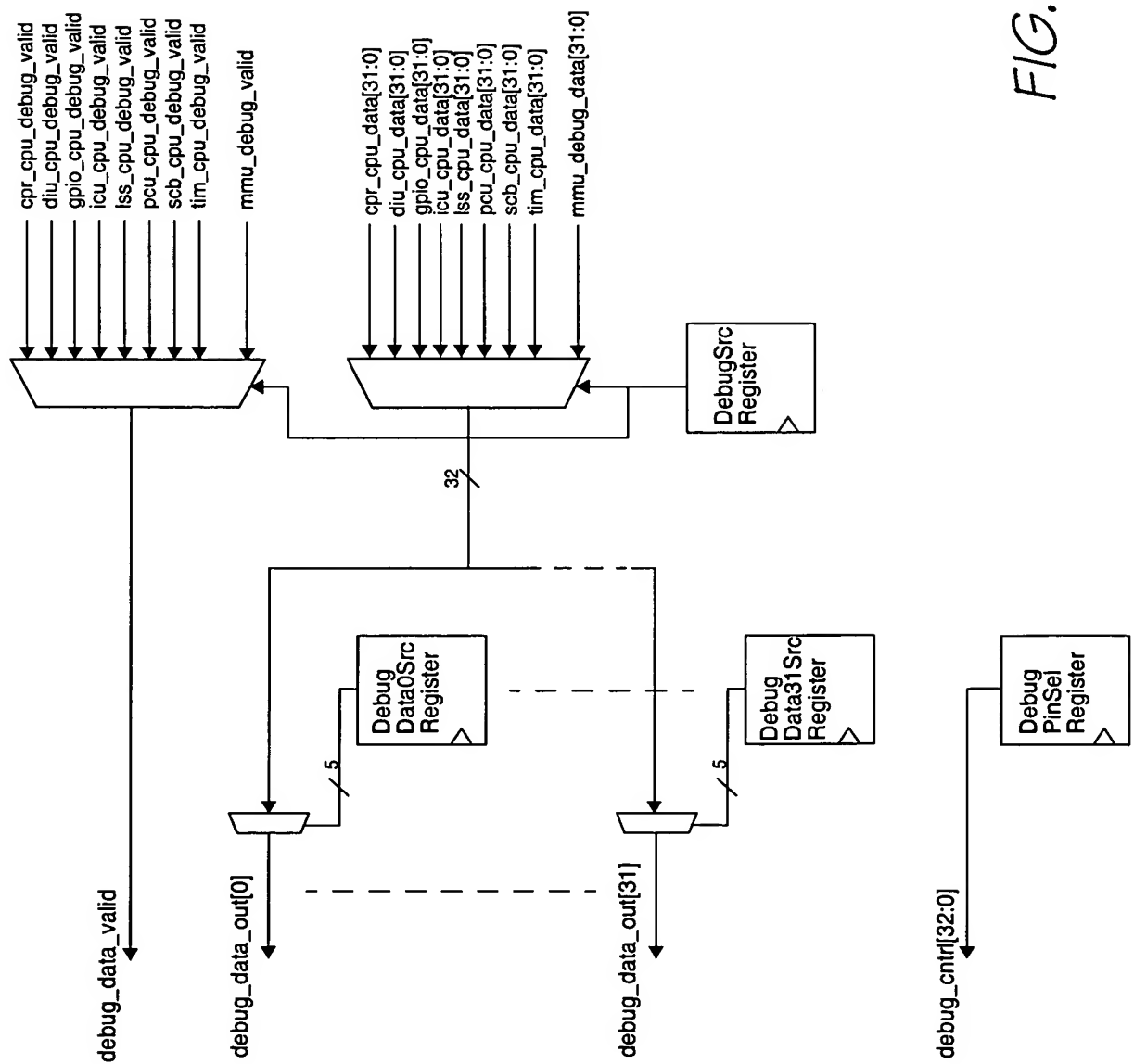


FIG. 25

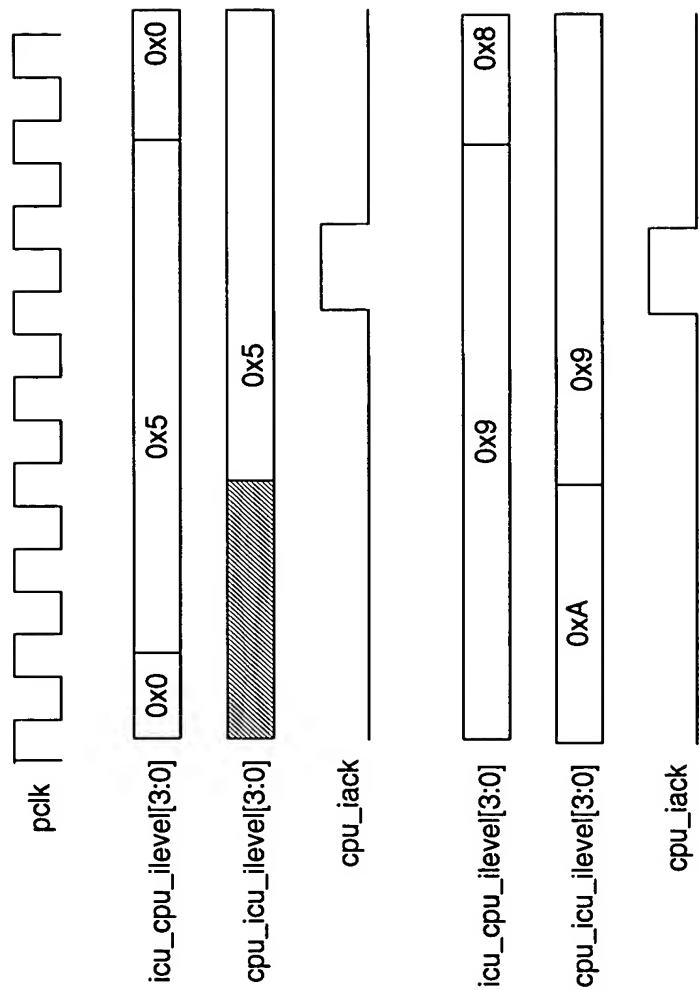


FIG. 26

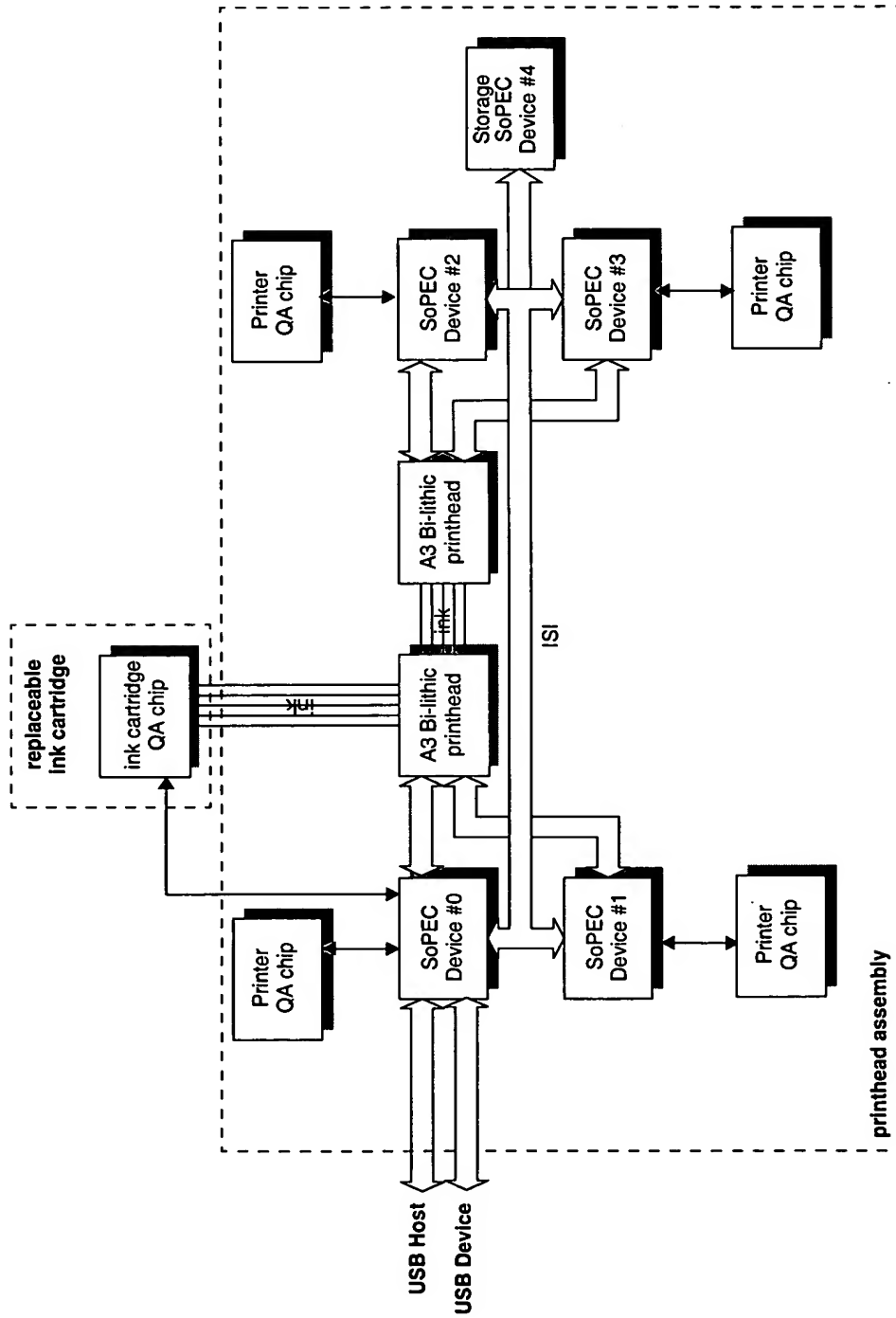


FIG. 27

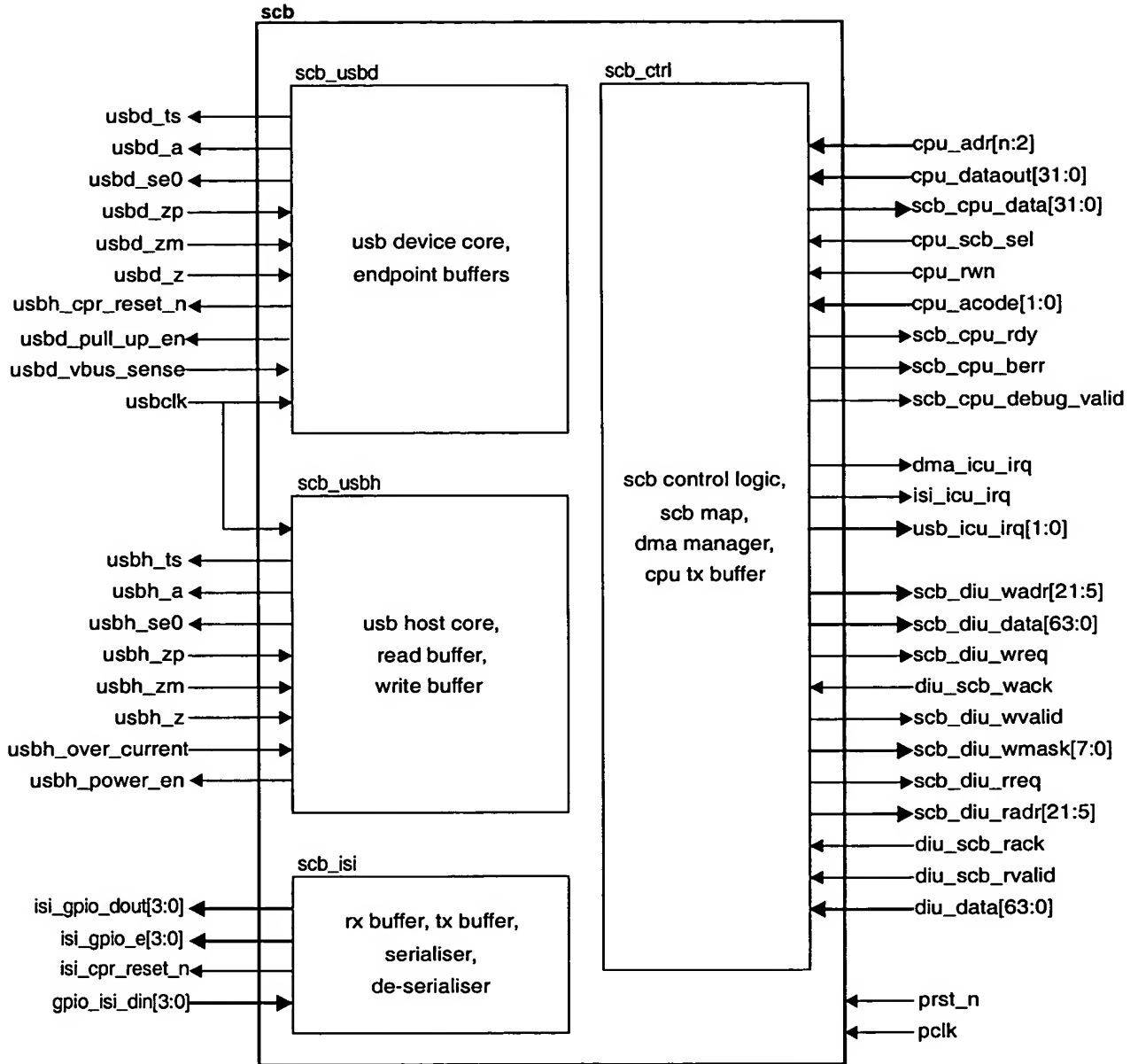


FIG. 28

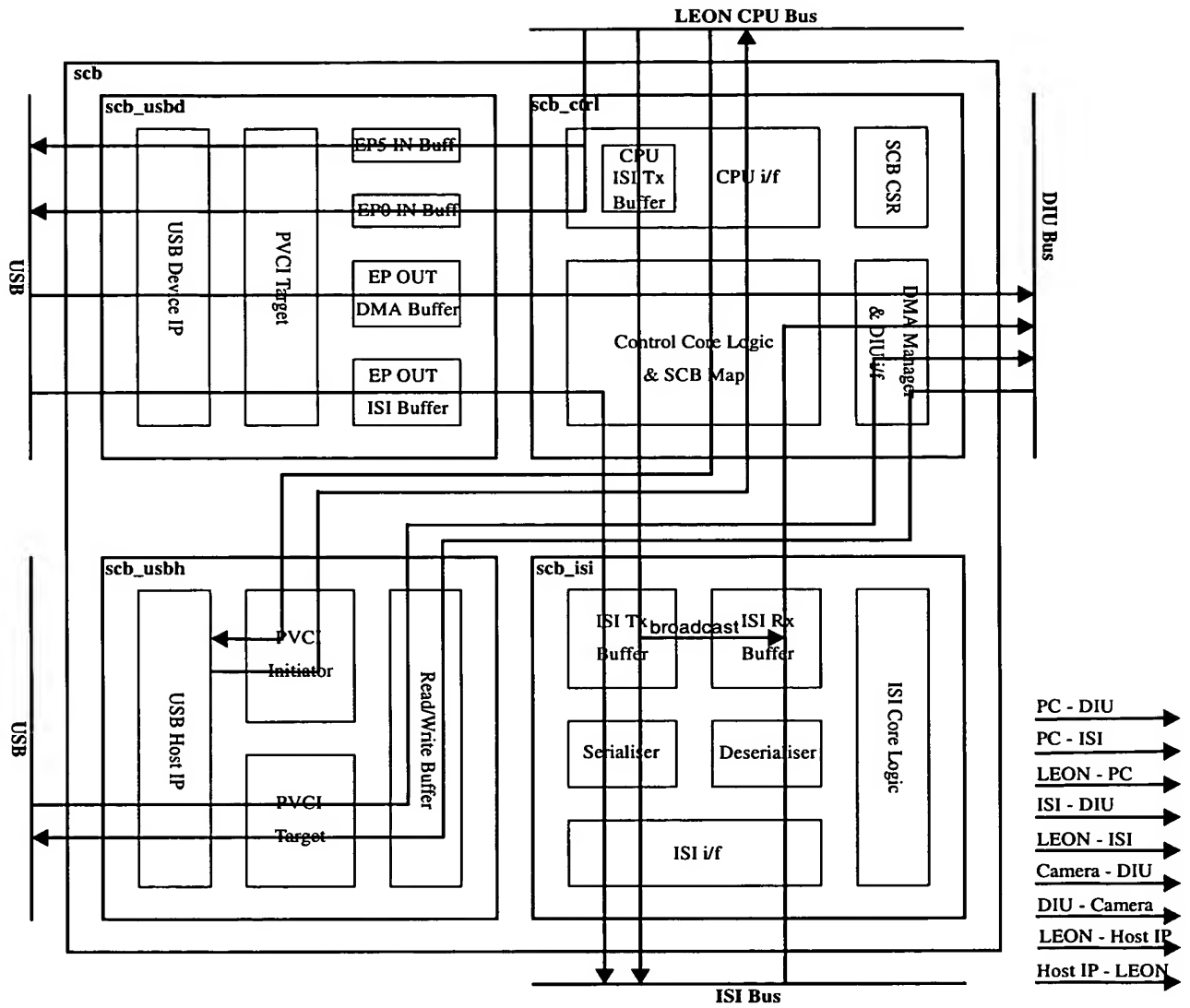


FIG. 29

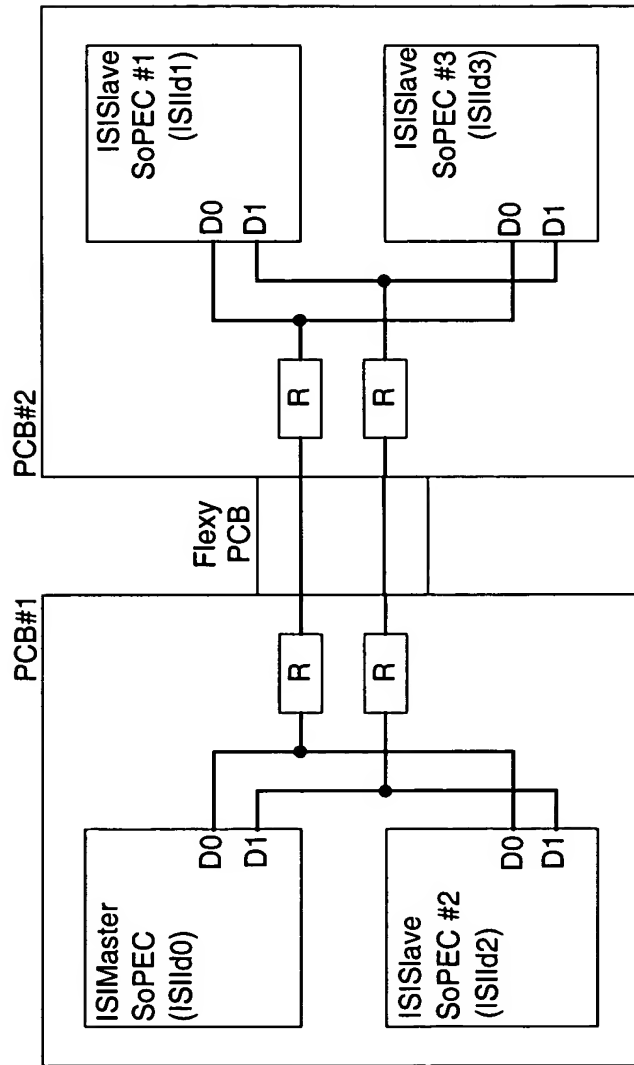


FIG. 30

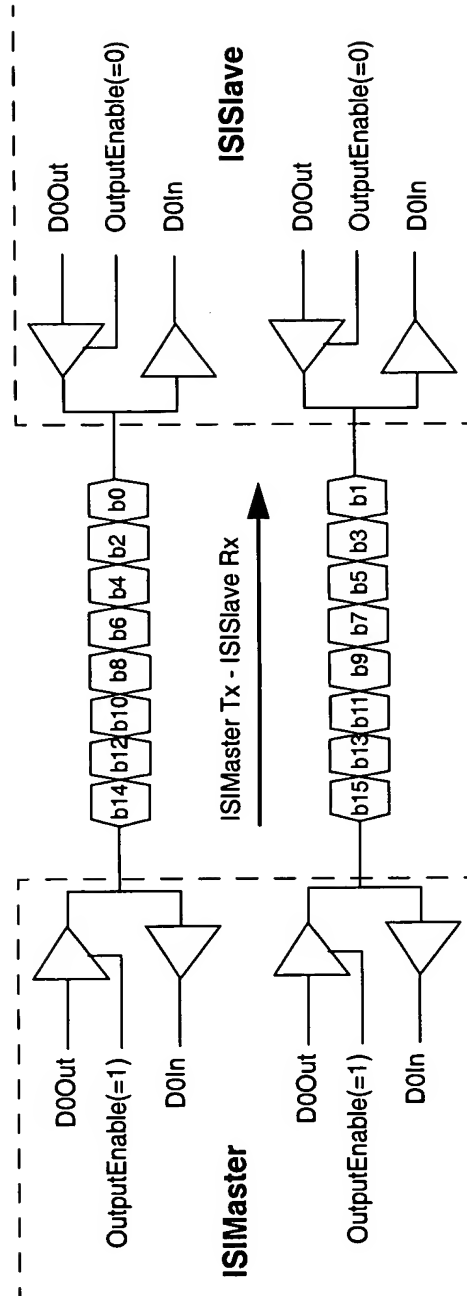
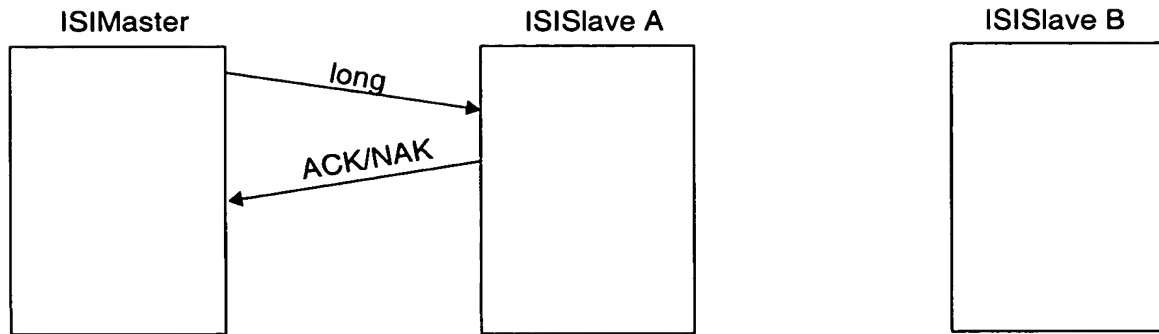
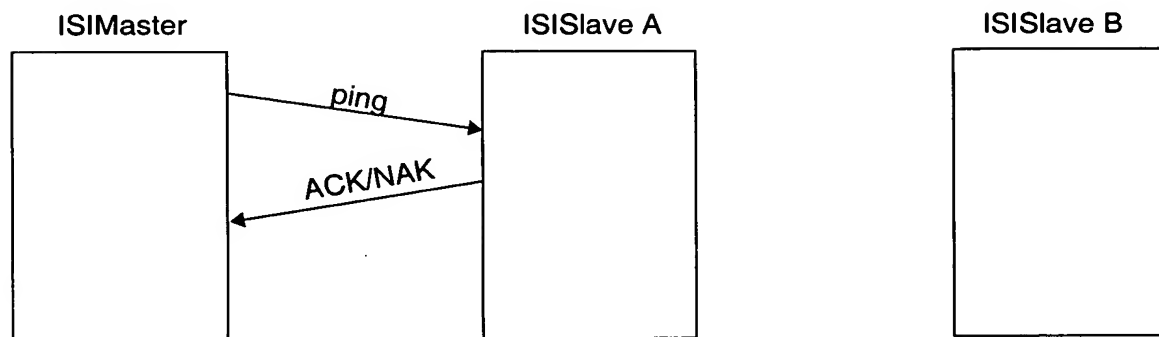


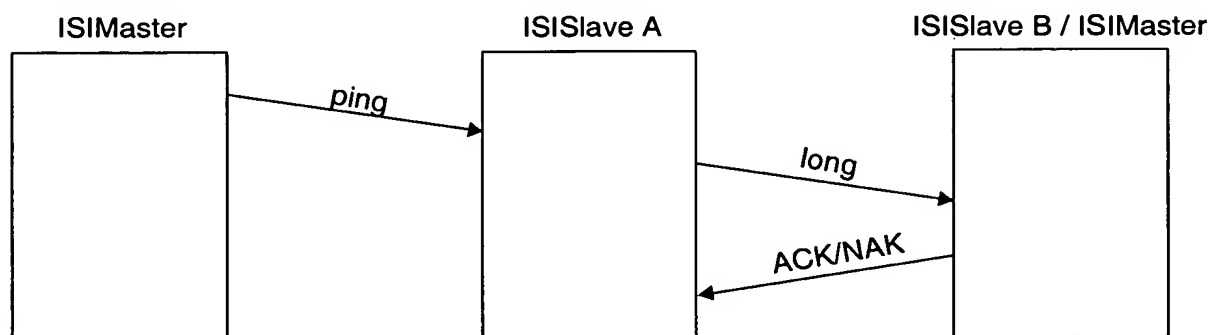
FIG. 31



Transaction 1: Long packet to an addressed ISISlave



Transaction 2: Ping packet to an addressed ISISlave. ISISlave has nothing to send



Transaction 3: Ping packet to an addressed ISISlave. ISISlaveA responds with a long packet to ISISlaveB (or the ISIMaster) and ISISlaveB (or the ISIMaster) responds with an ACK or NAK.

FIG. 32

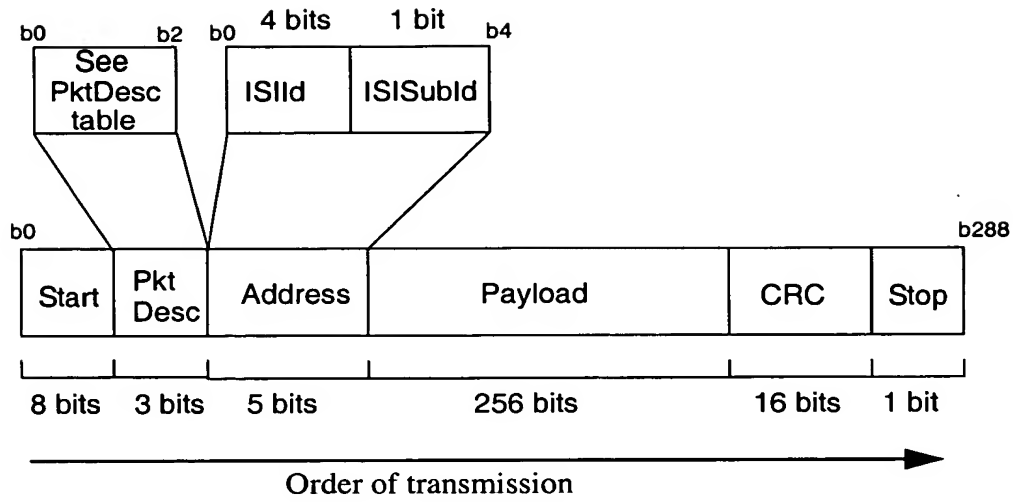


FIG. 33

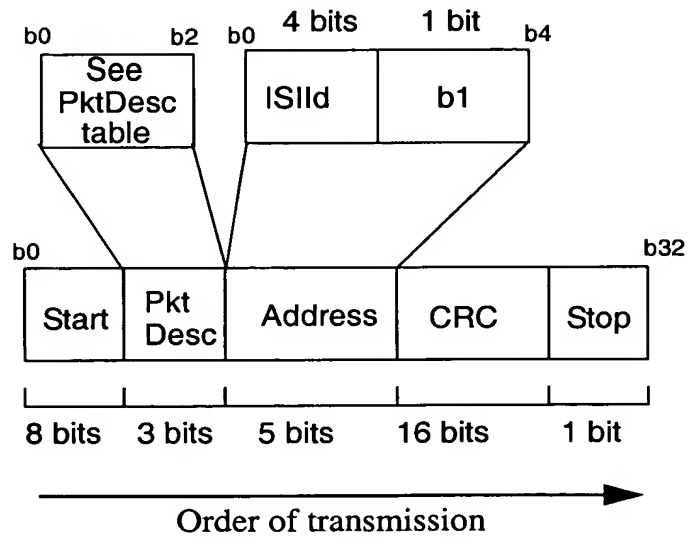
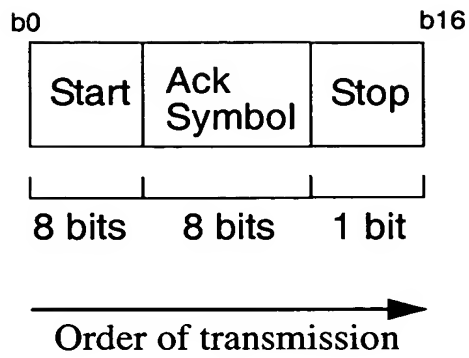
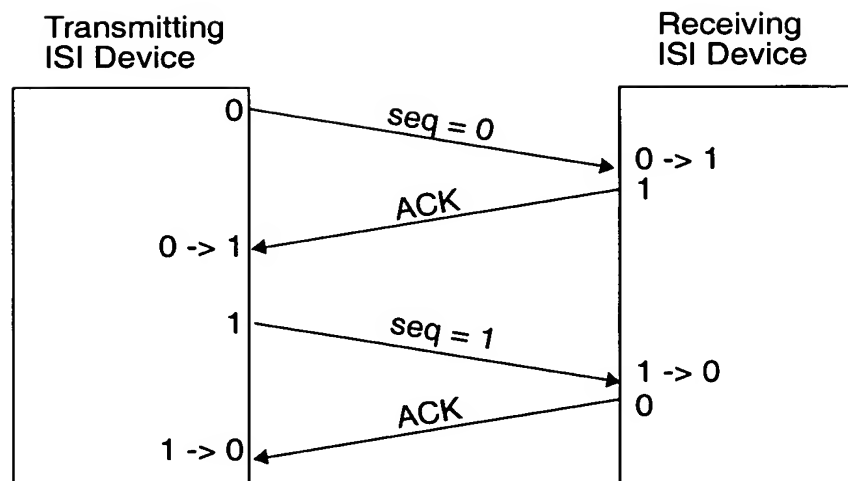


FIG. 34

*FIG. 35**FIG. 36*

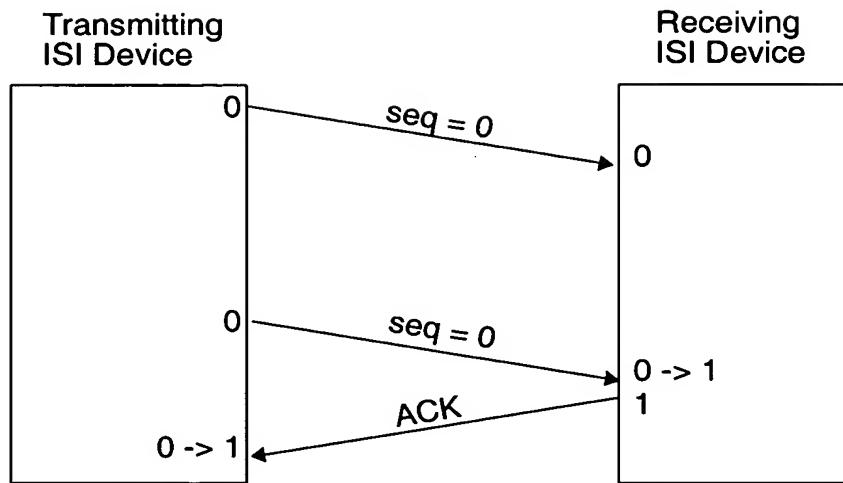


FIG. 37

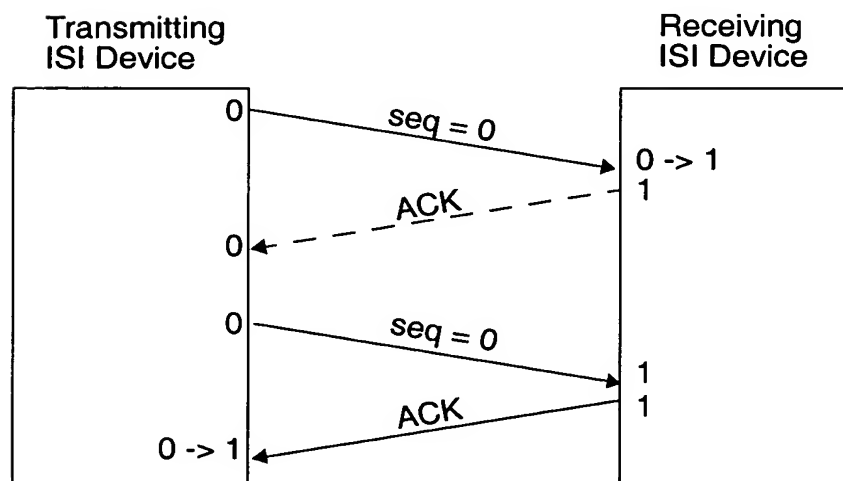


FIG. 38

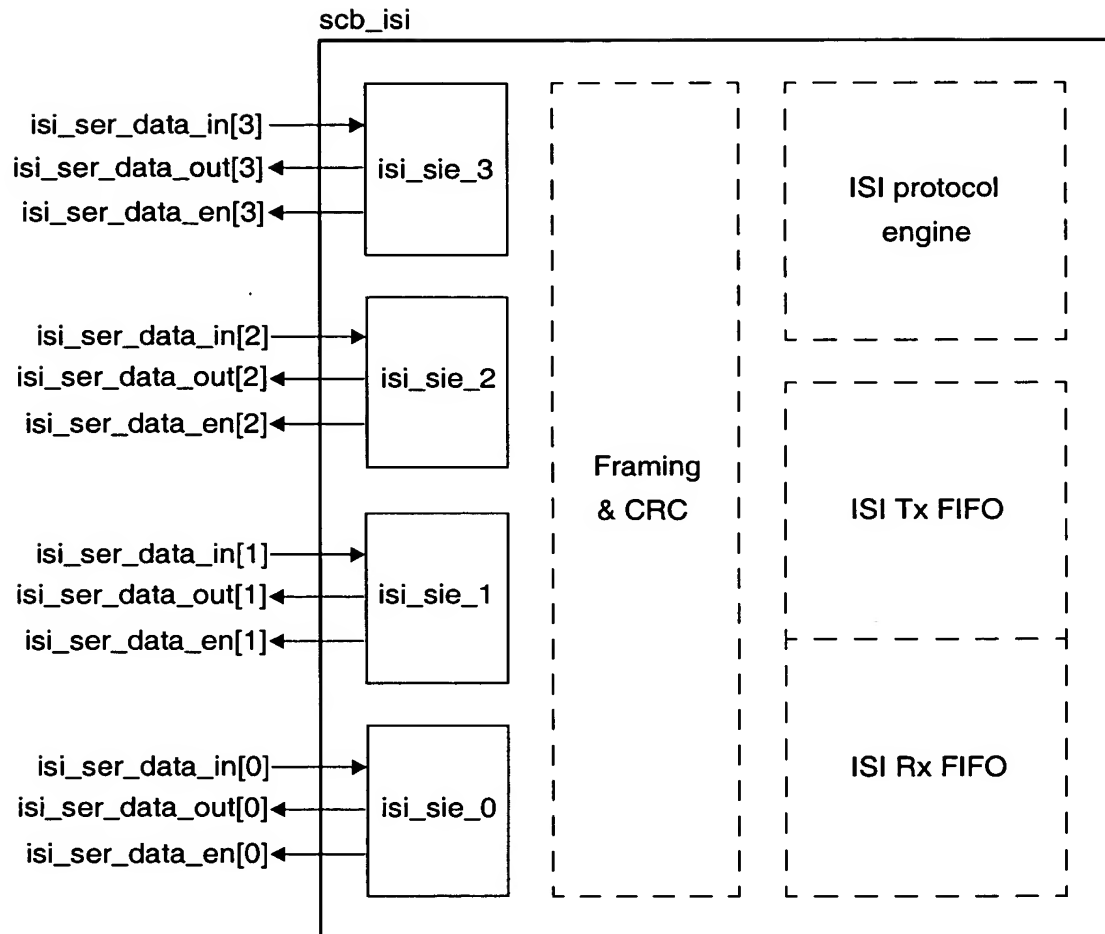


FIG. 39

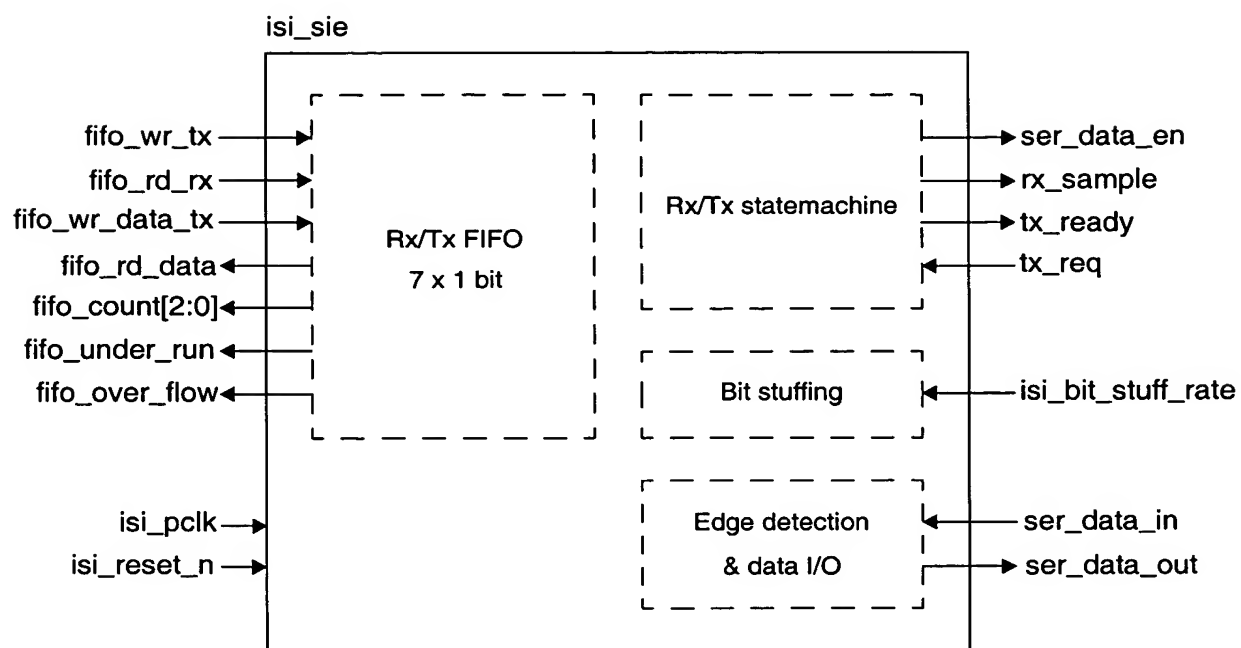


FIG. 40

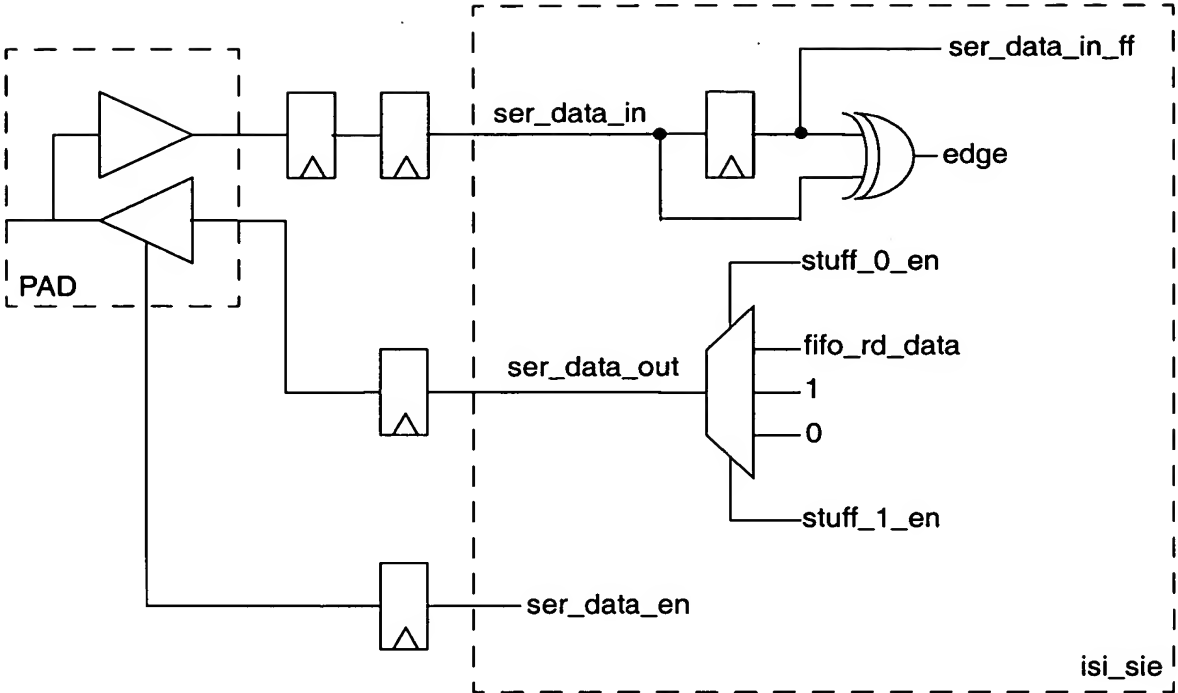


FIG. 41

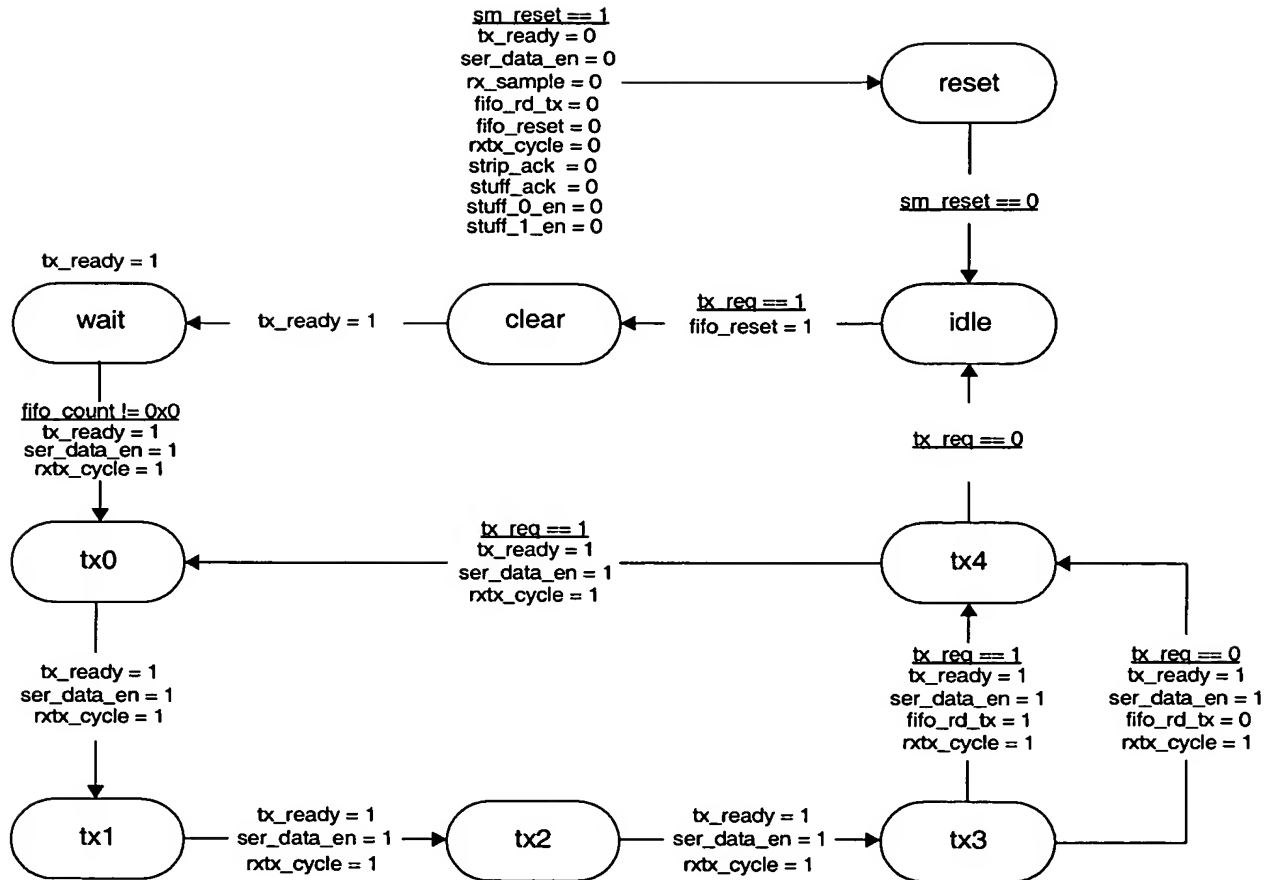


FIG. 42

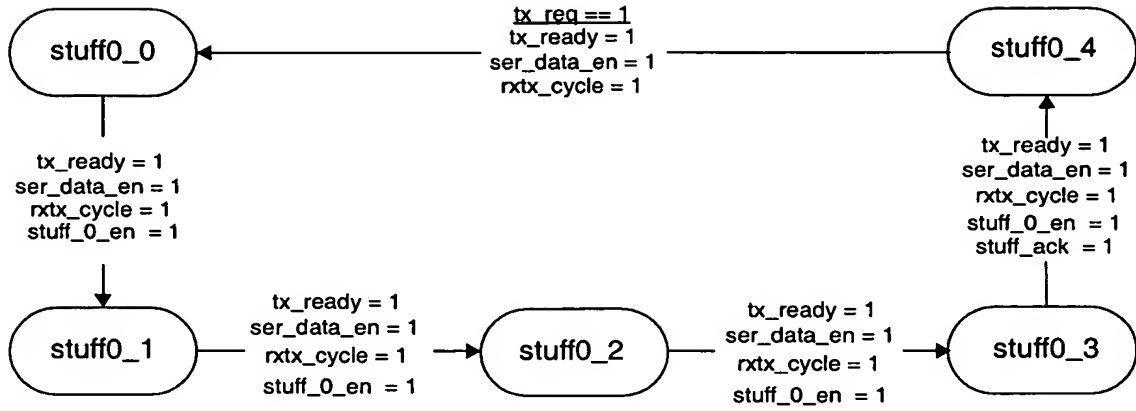


FIG. 43

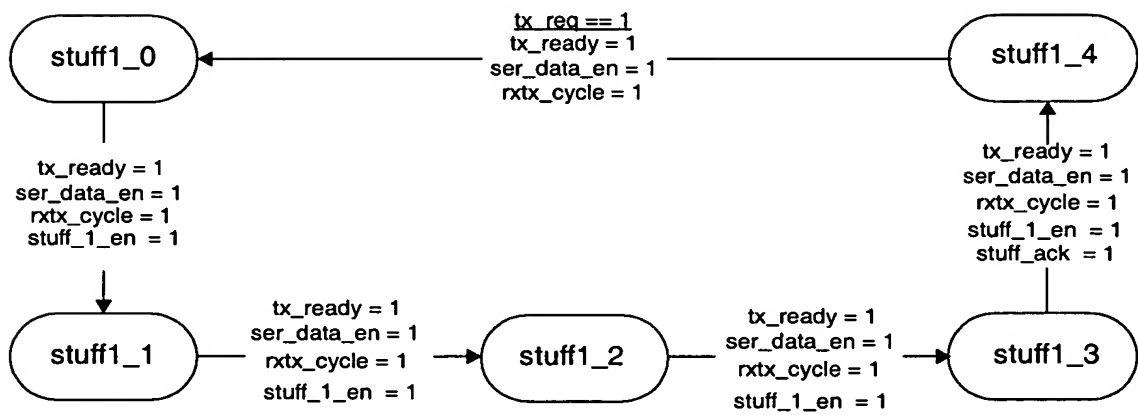


FIG. 44

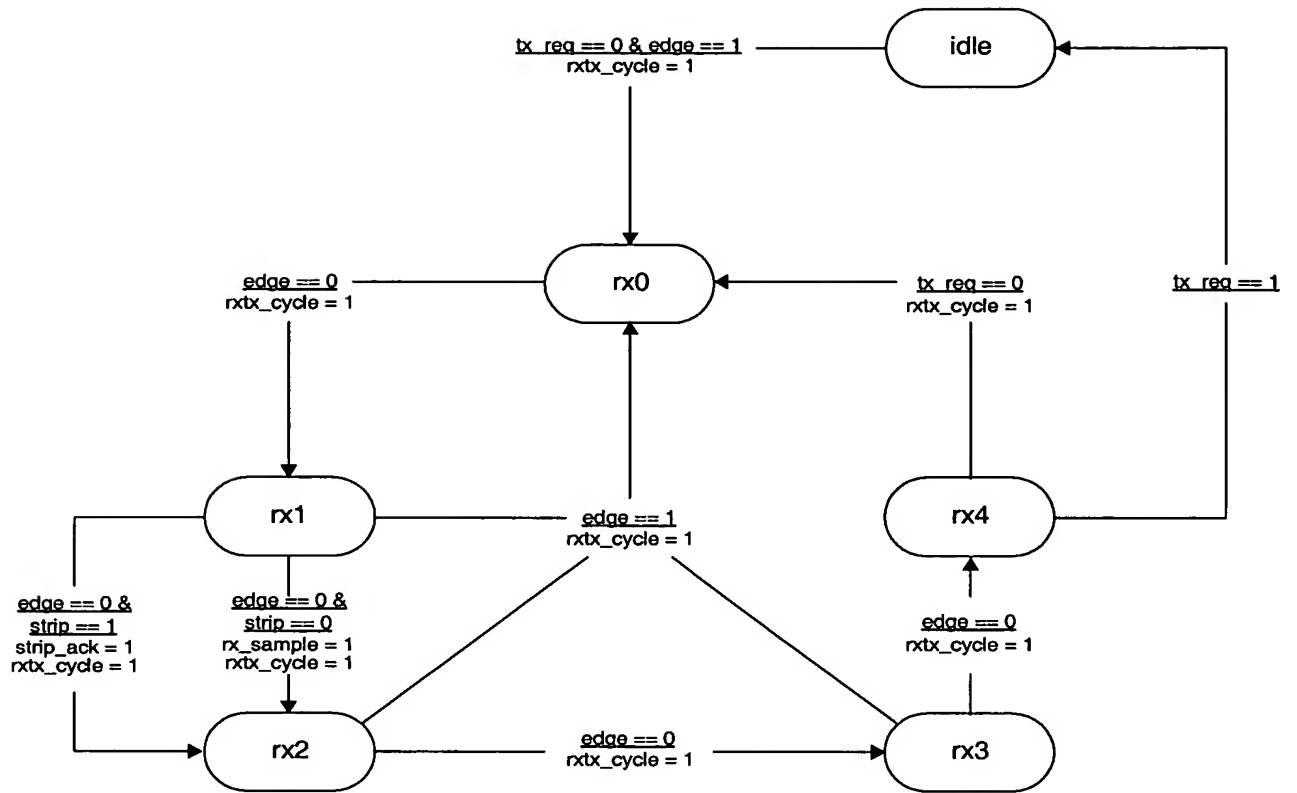


FIG. 45

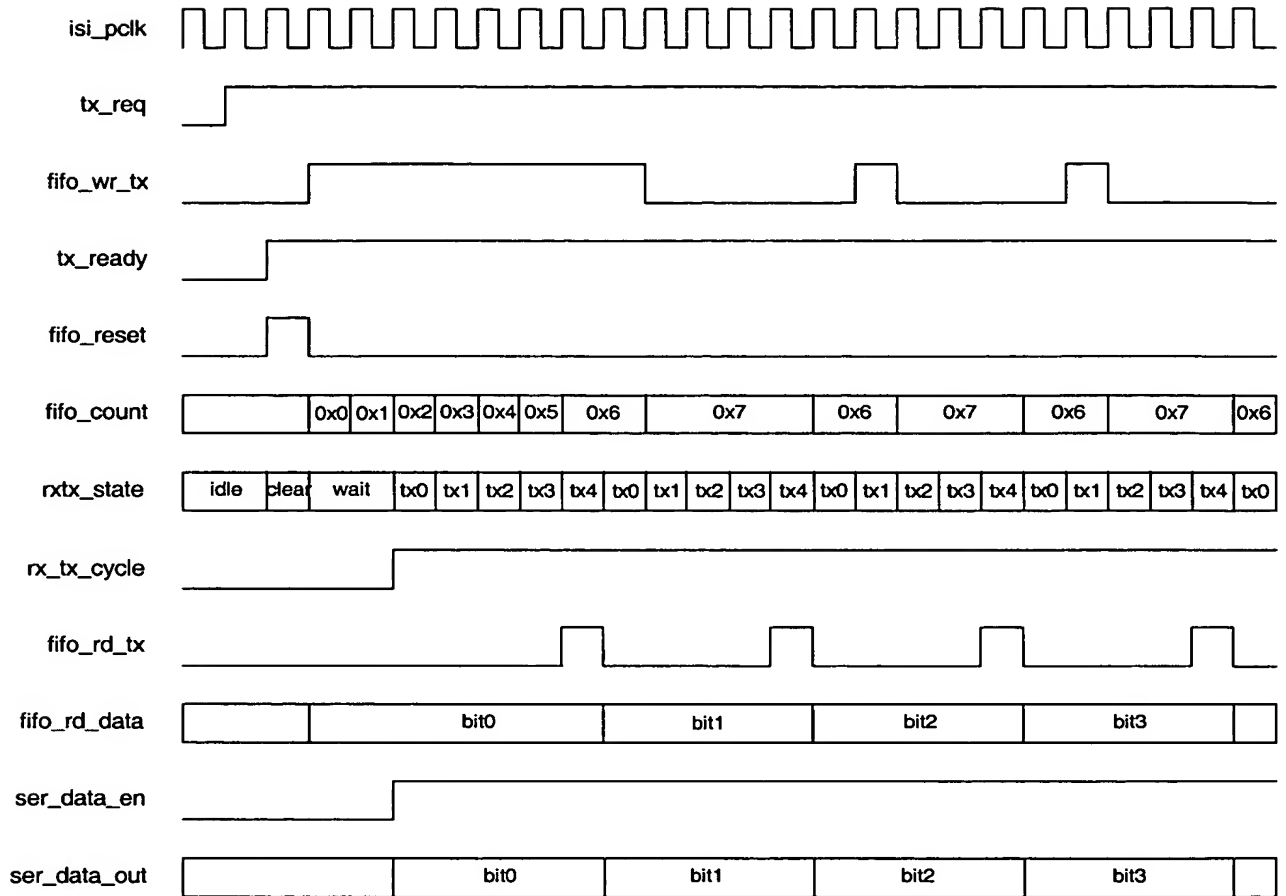


FIG. 46

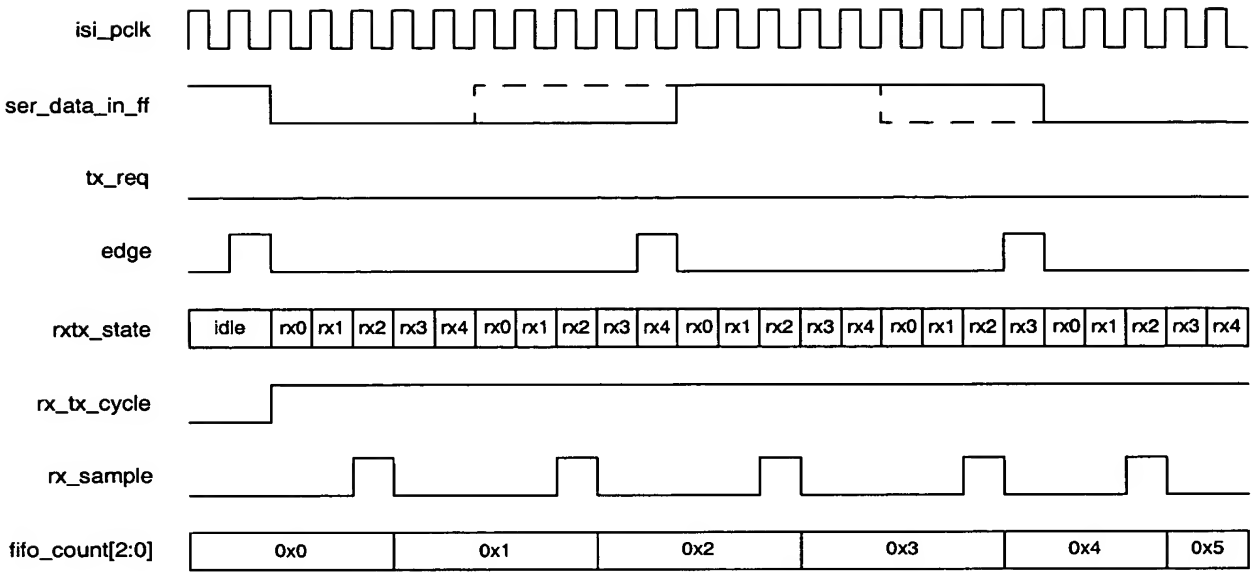


FIG. 47

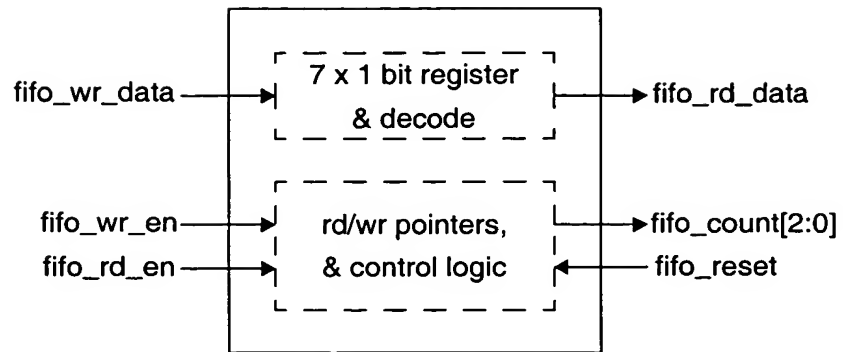


FIG. 48

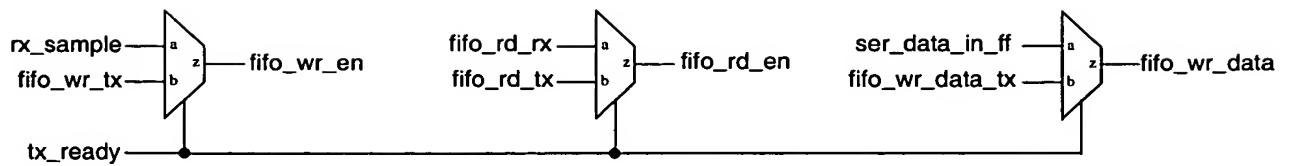


FIG. 49

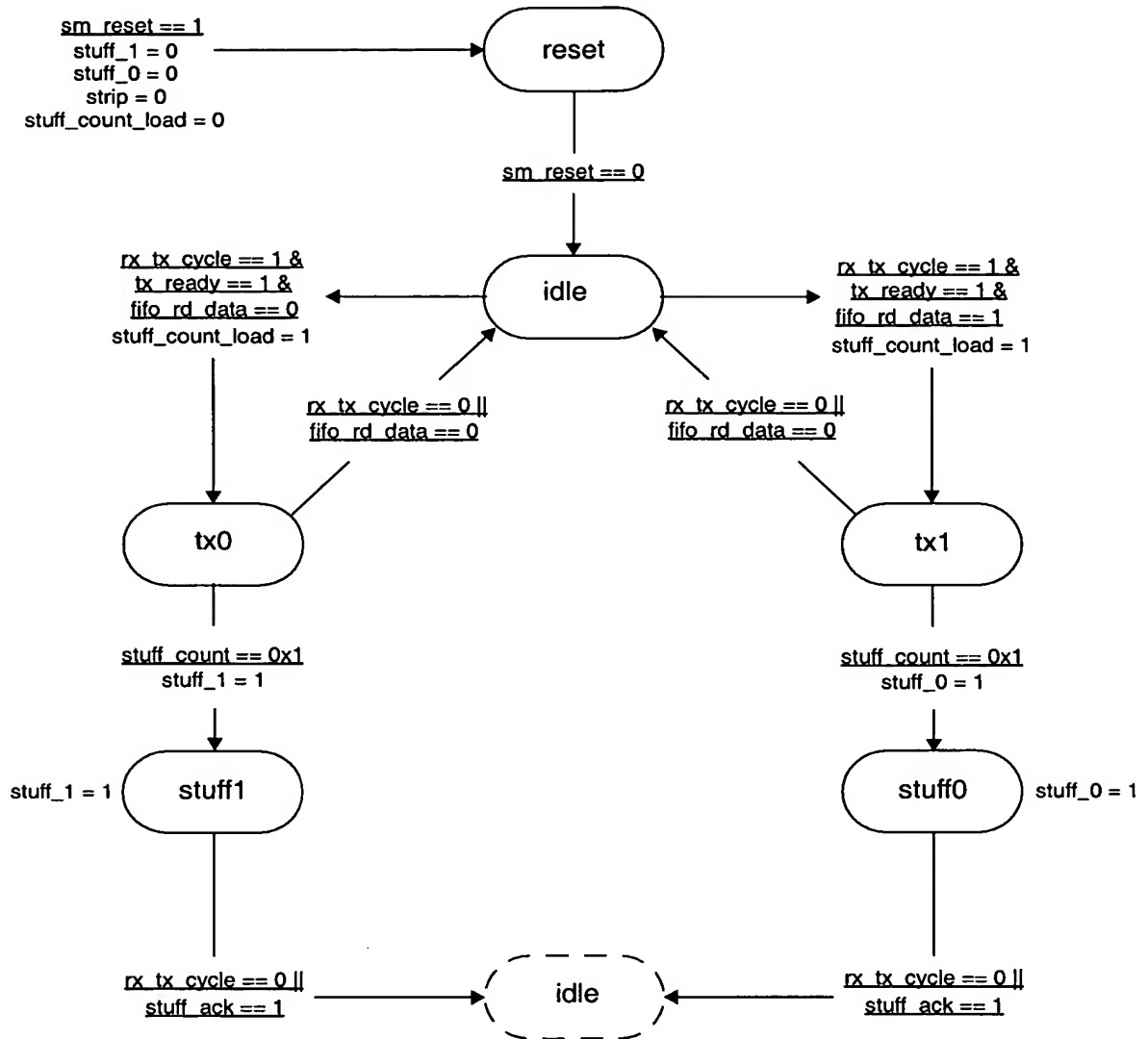


FIG. 50

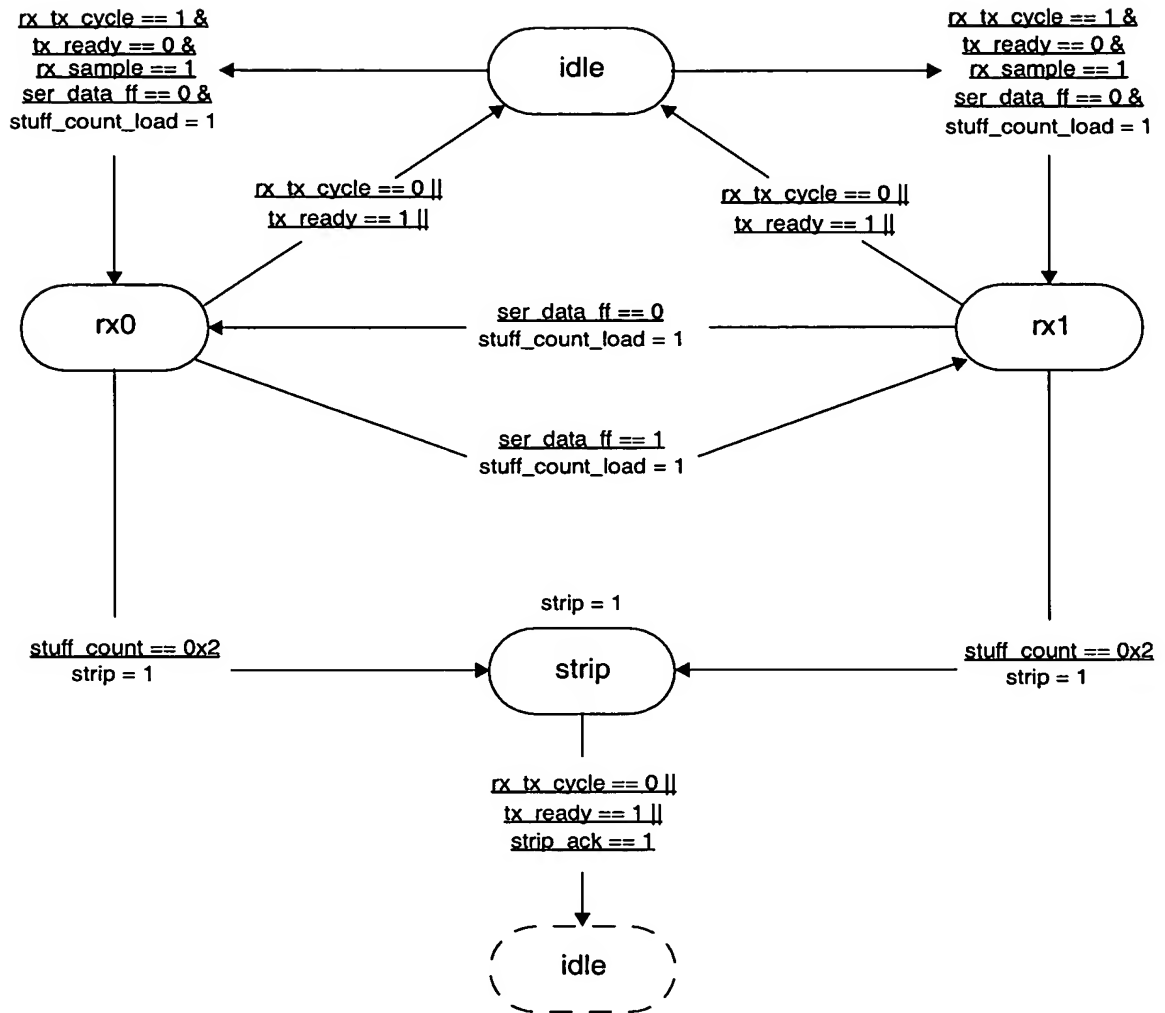


FIG. 51

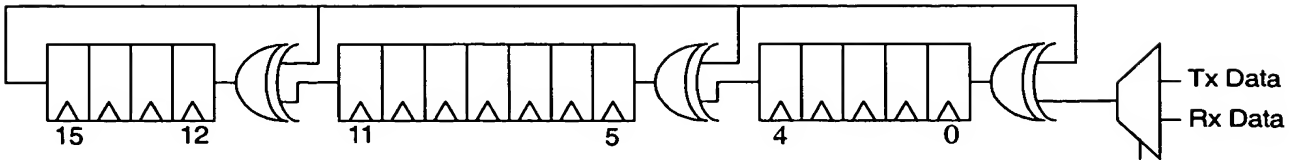


FIG. 52

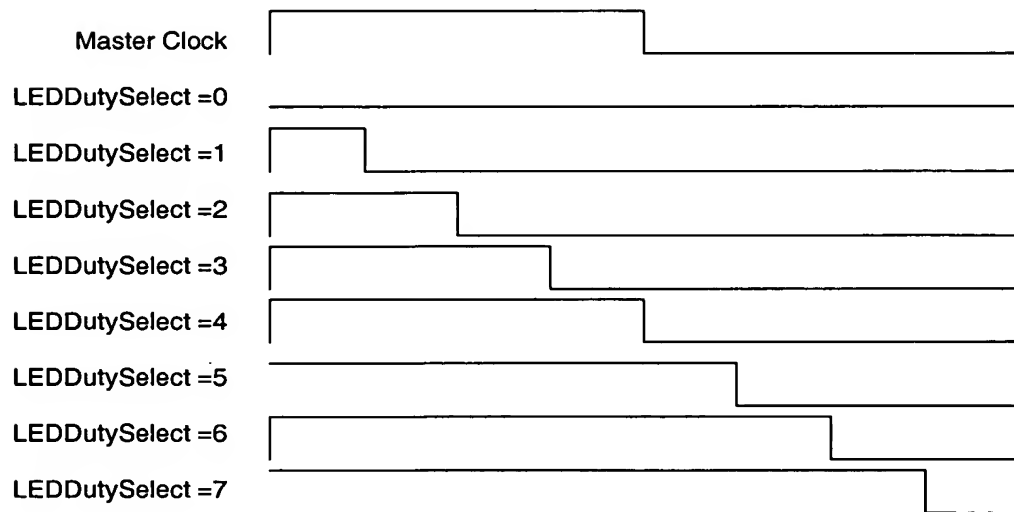


FIG. 54

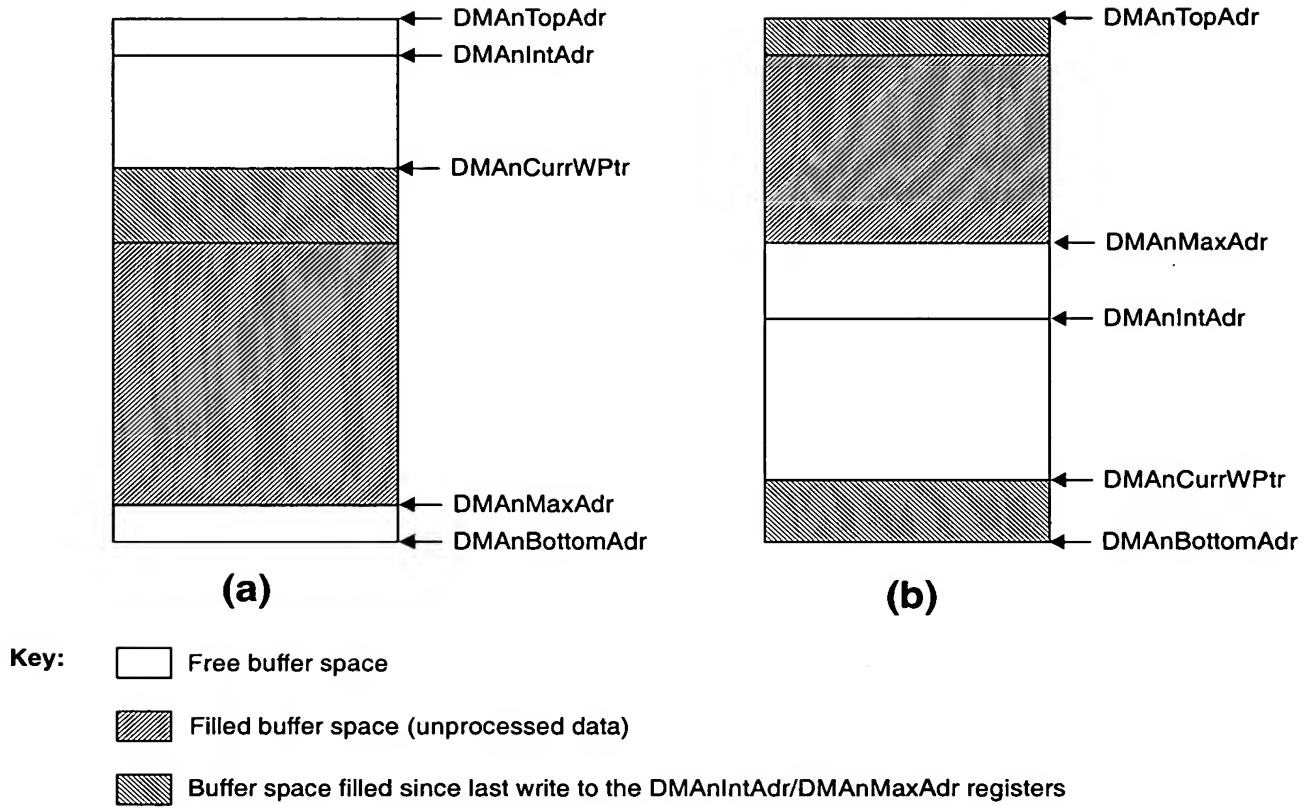


FIG. 53

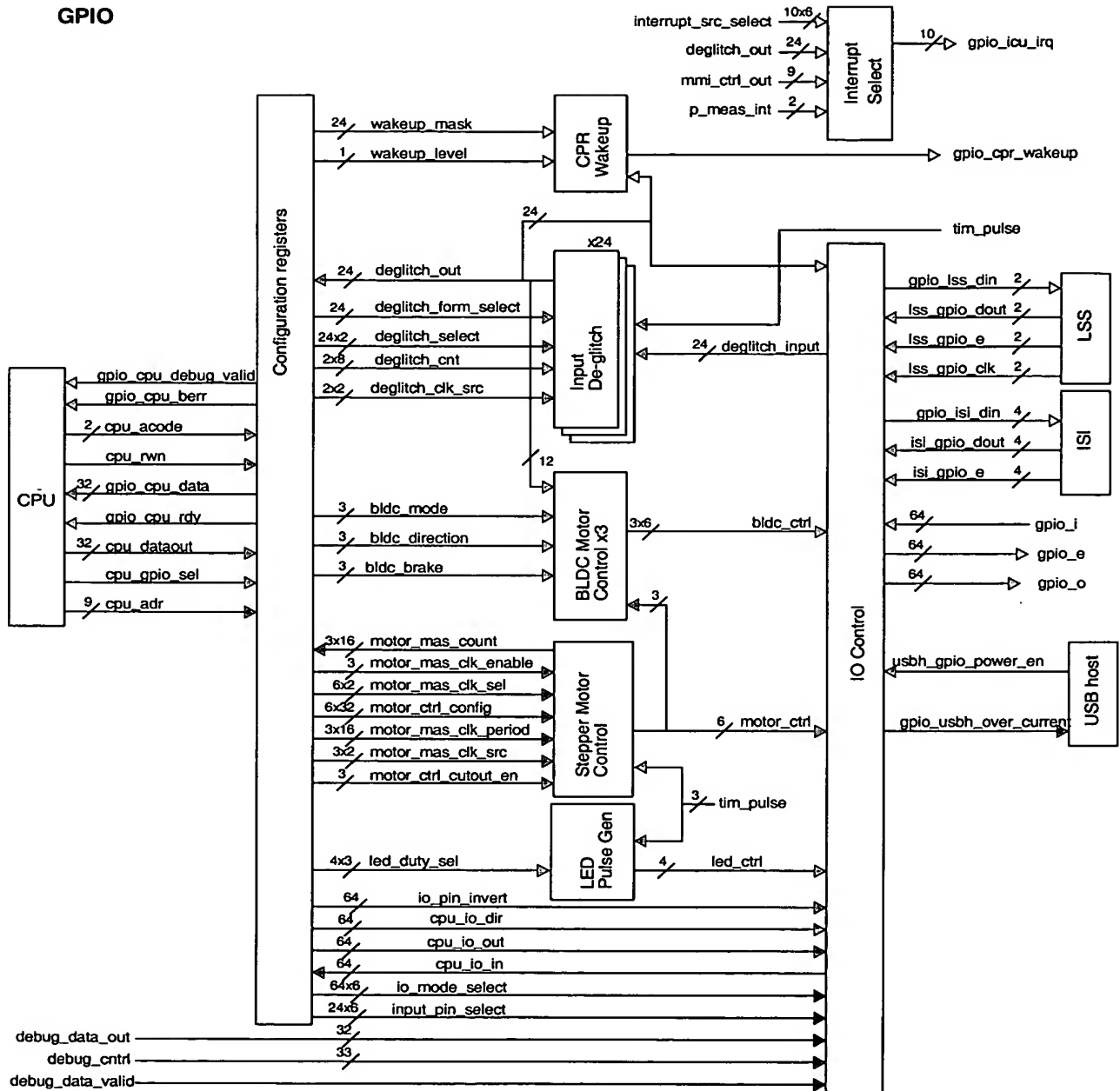


FIG. 55

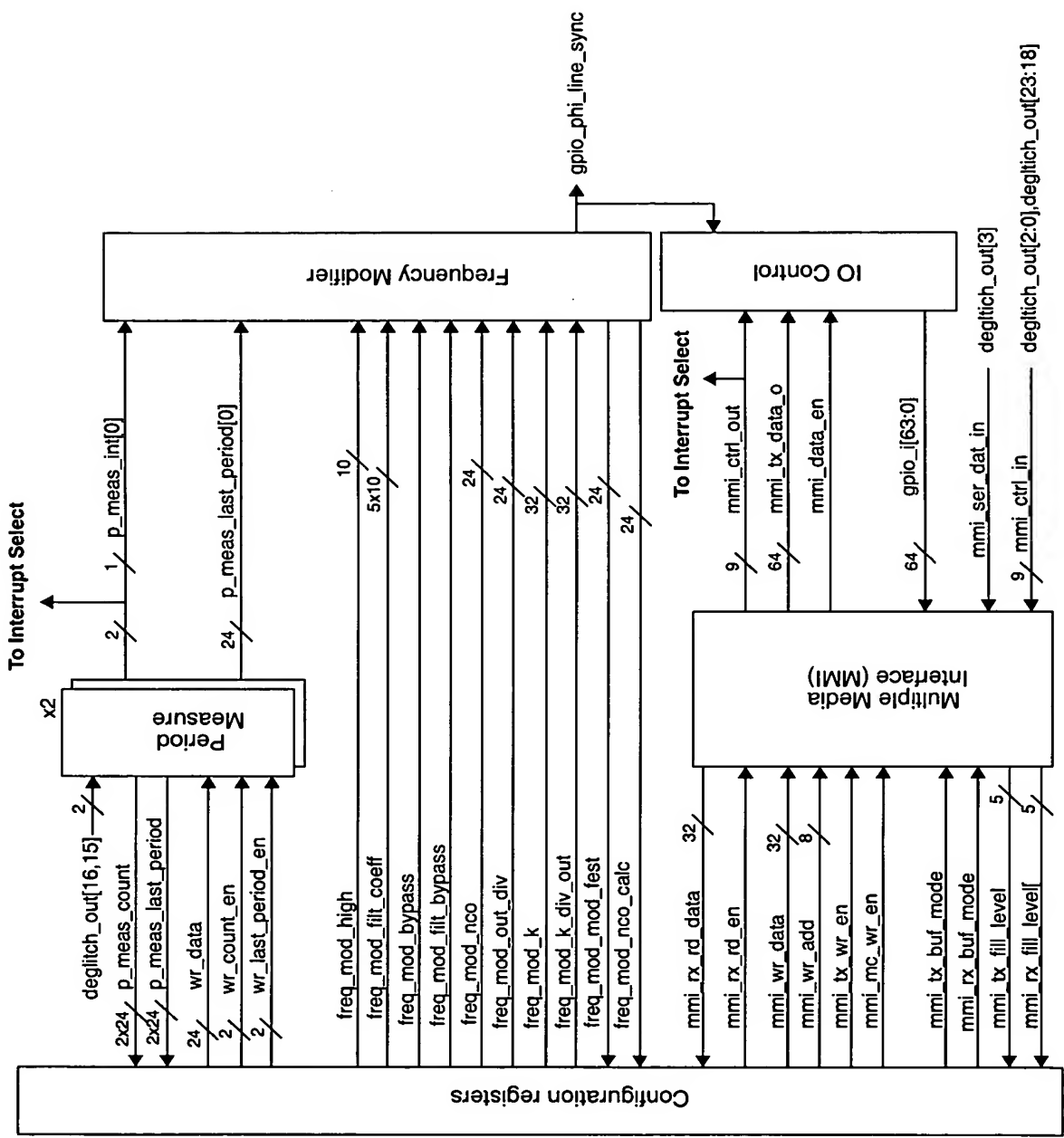


FIG. 56

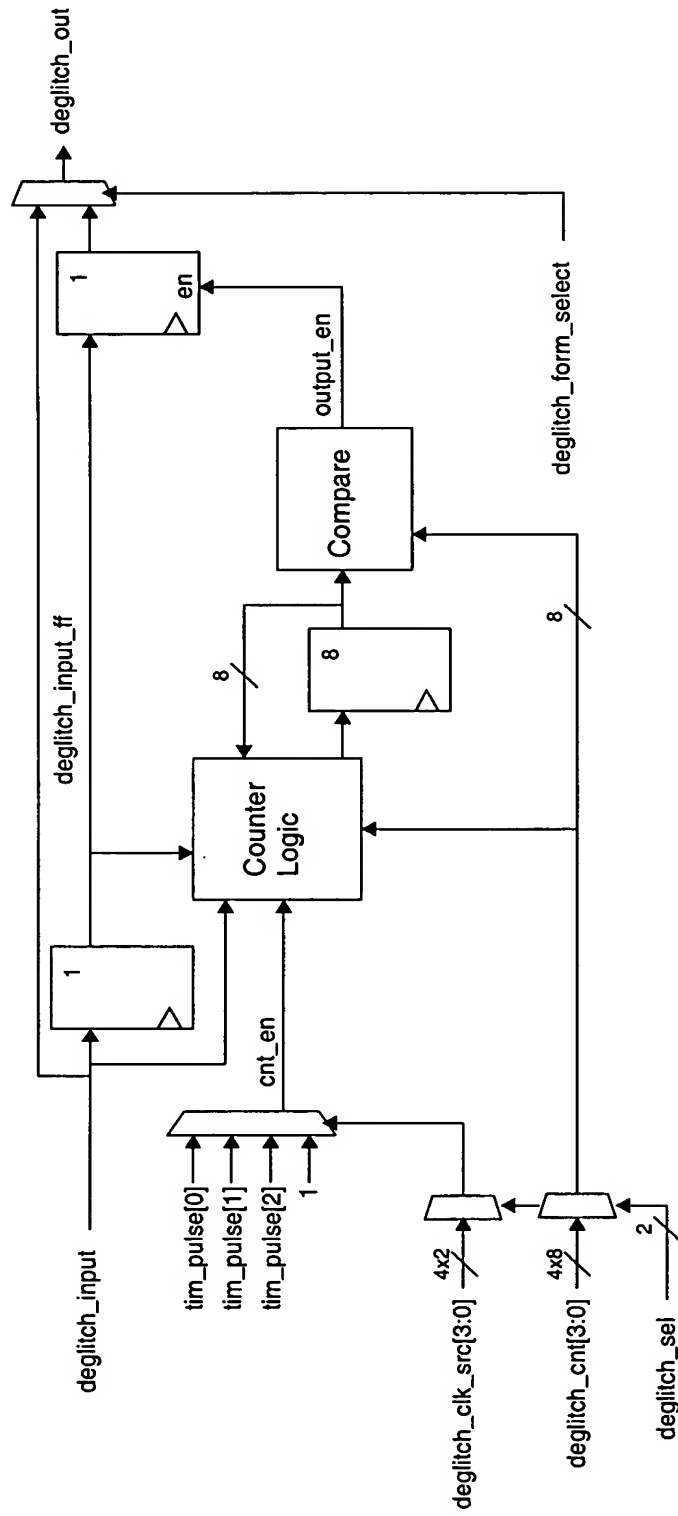


FIG. 57

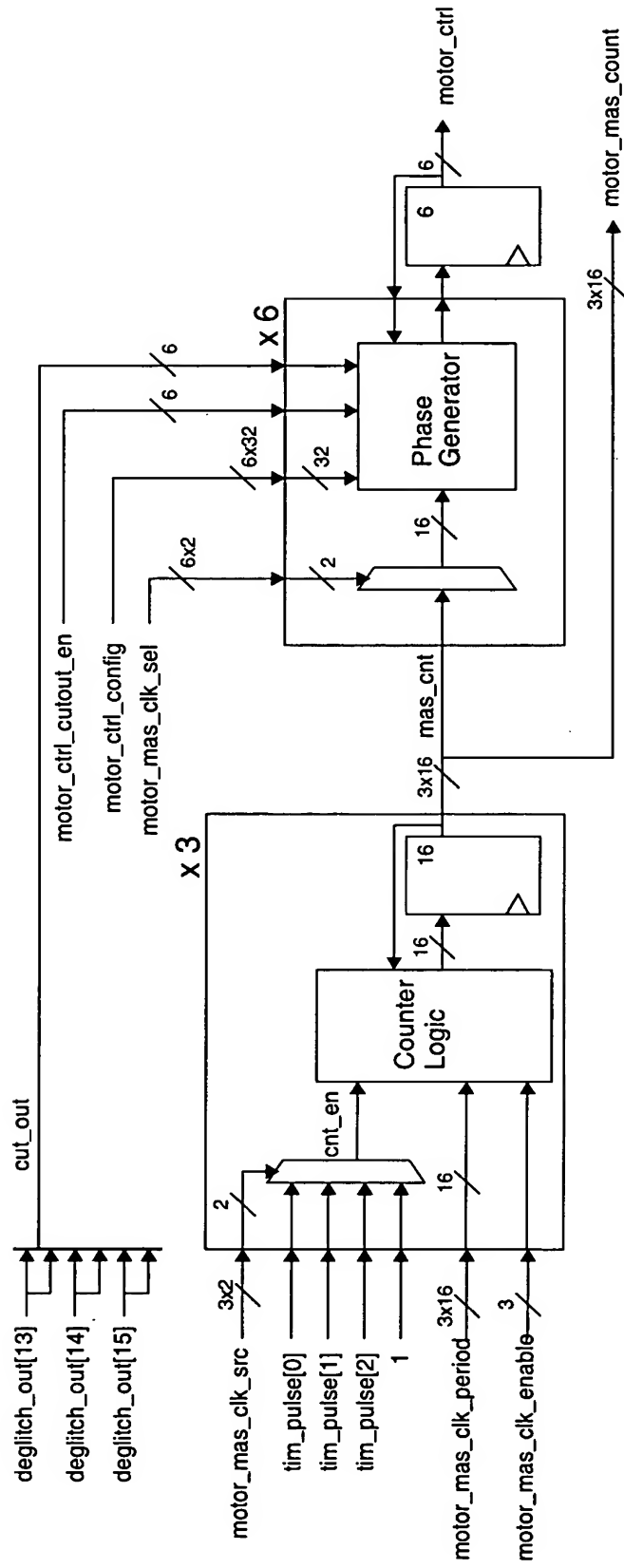


FIG. 58

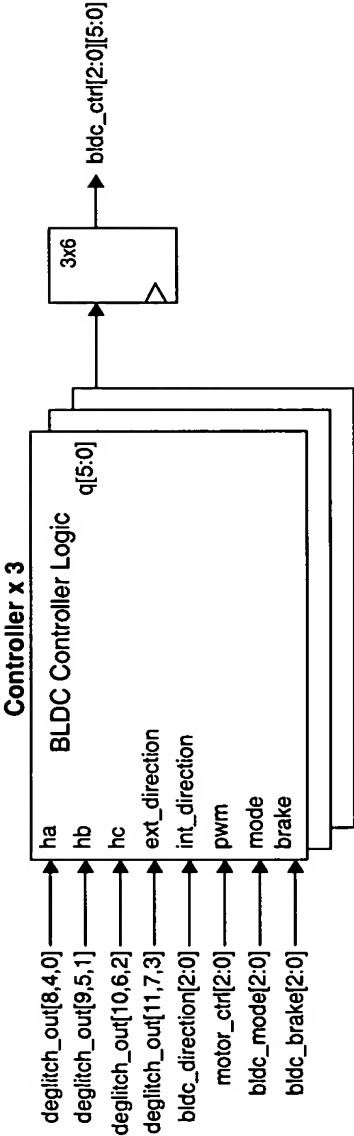


FIG. 59

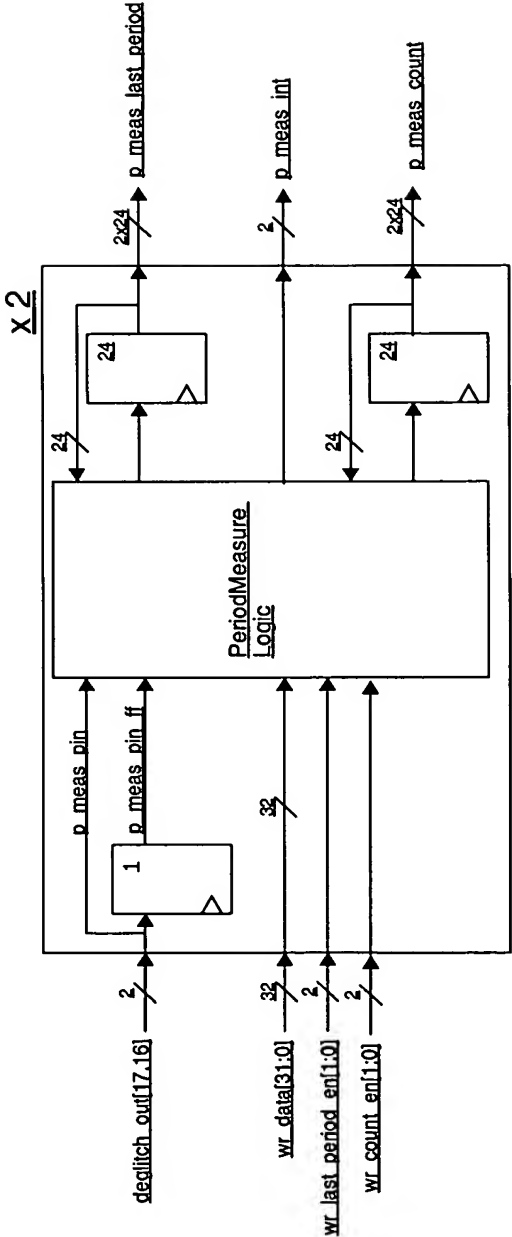


FIG. 60

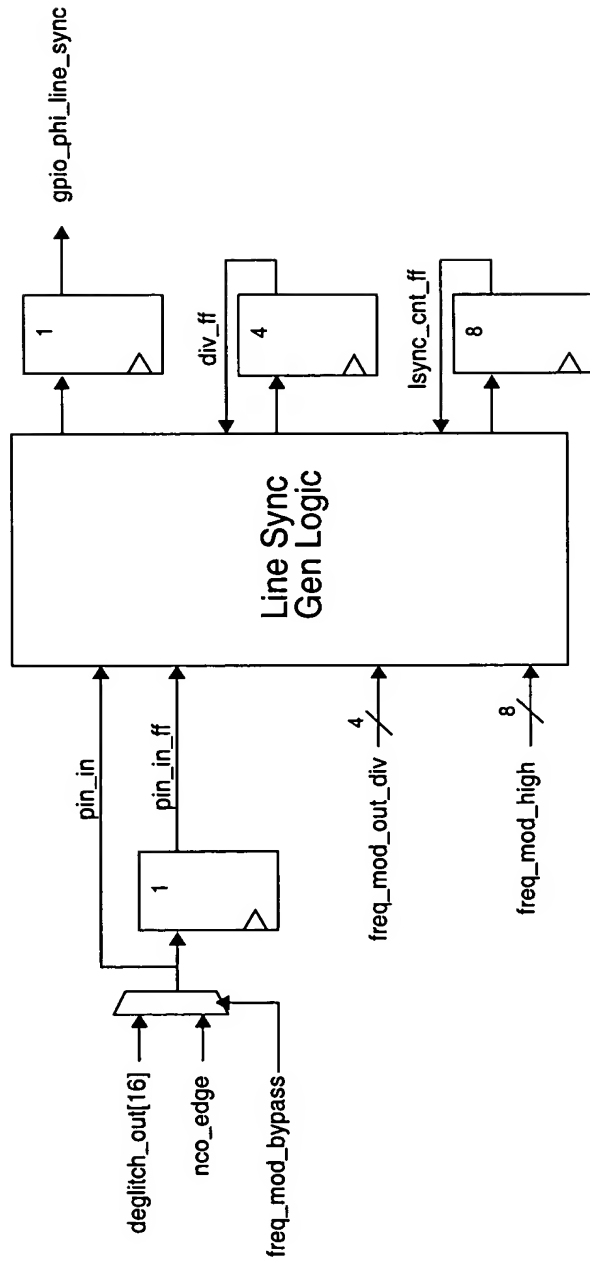


FIG. 61

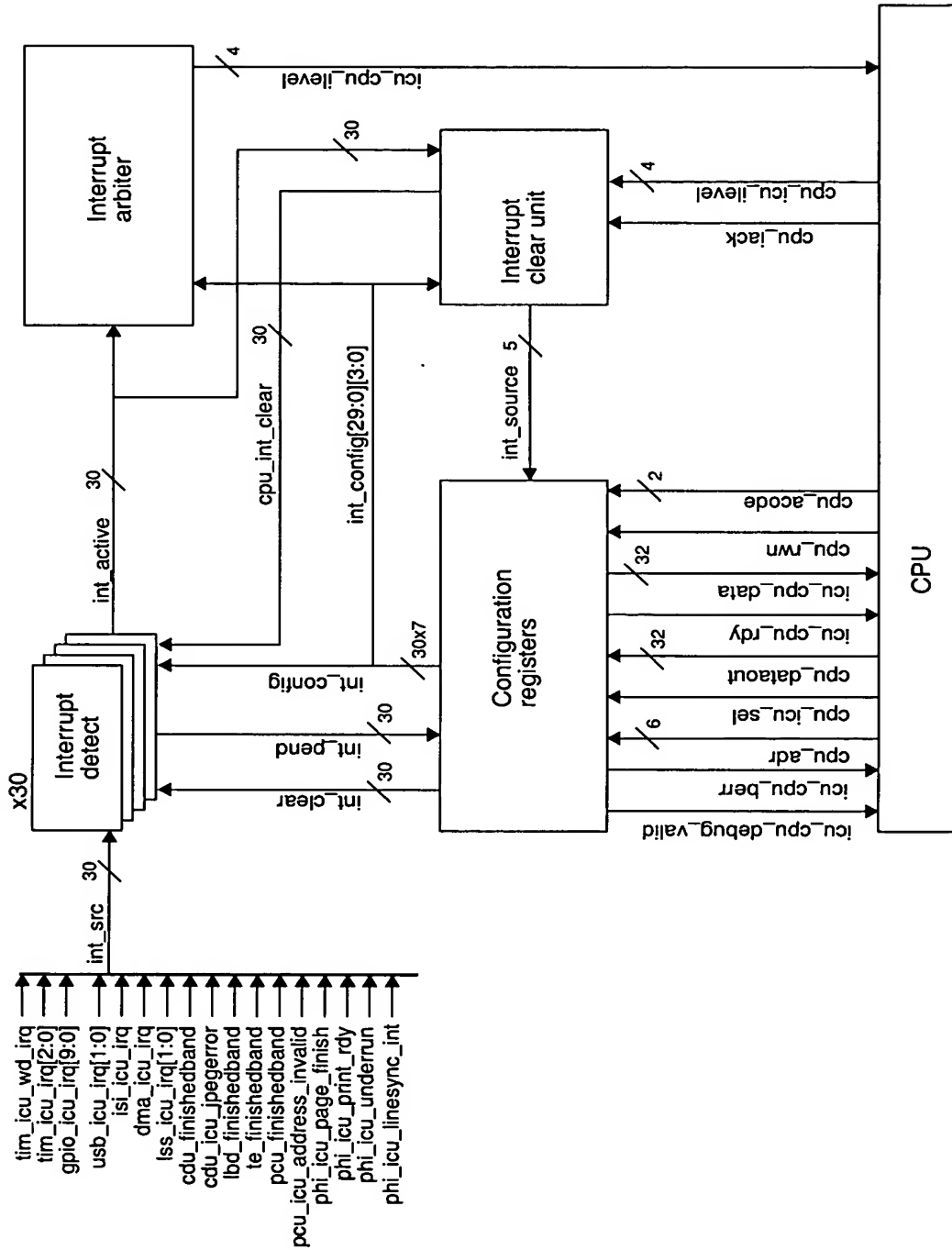


FIG. 62

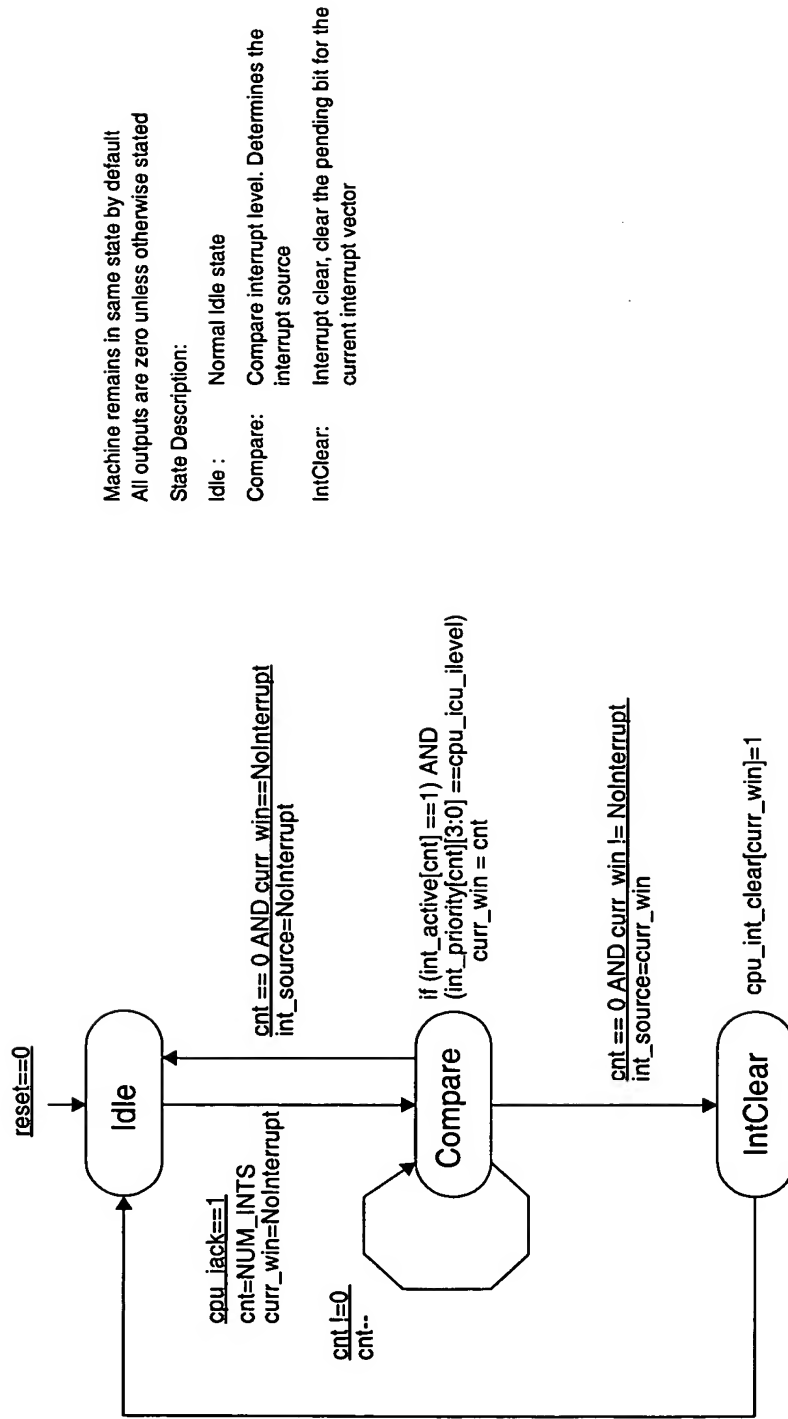


FIG. 63

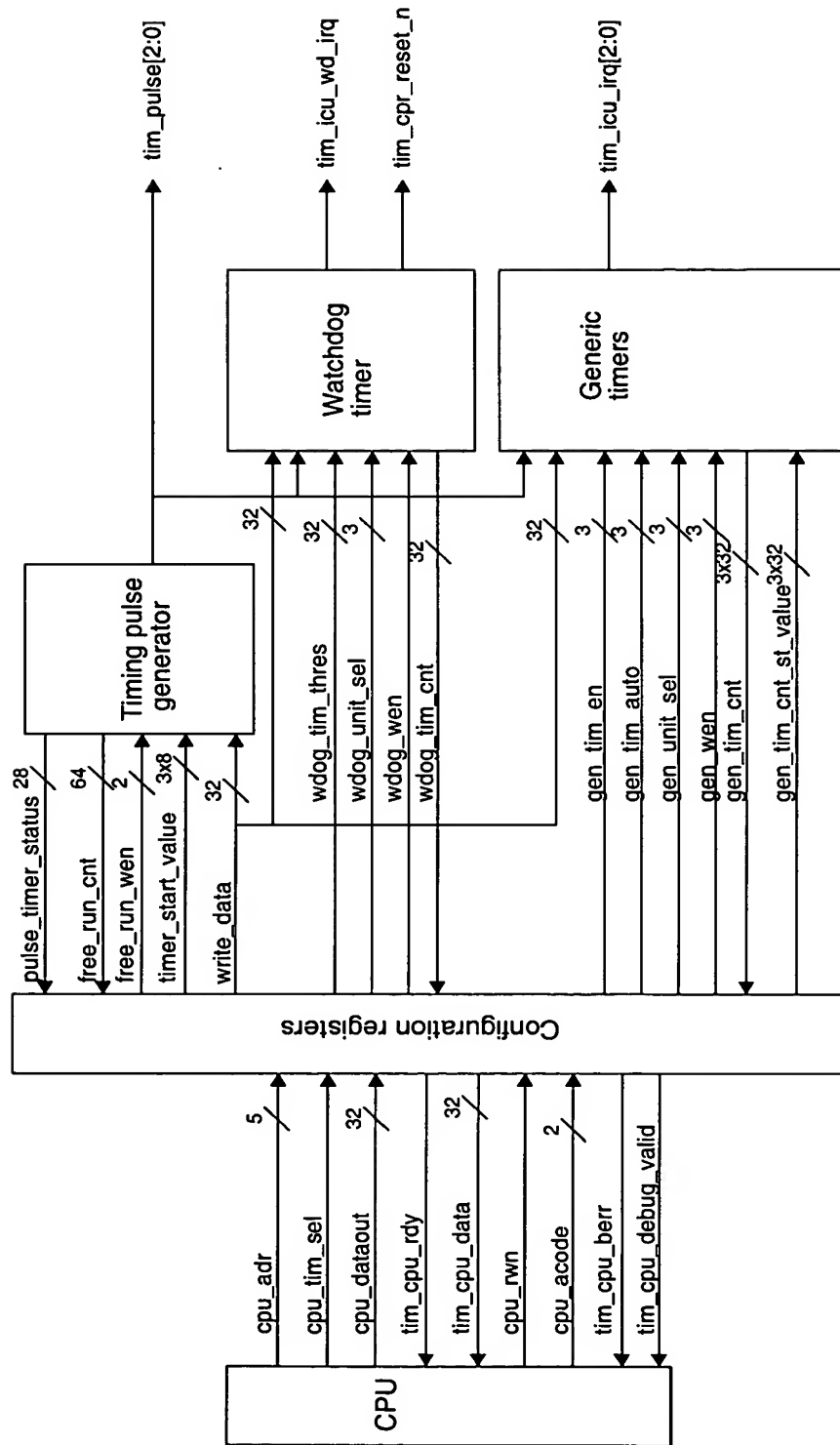


FIG. 63A

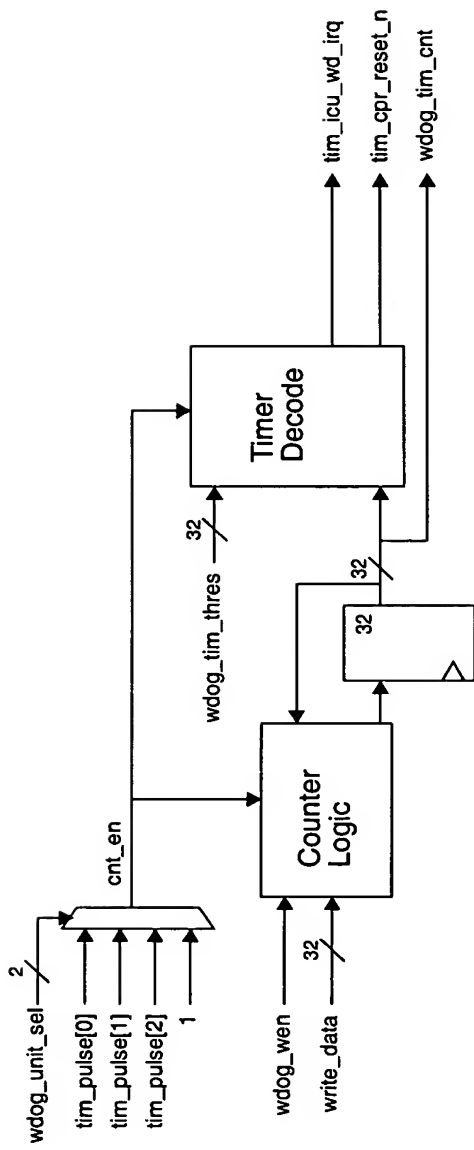


FIG. 64

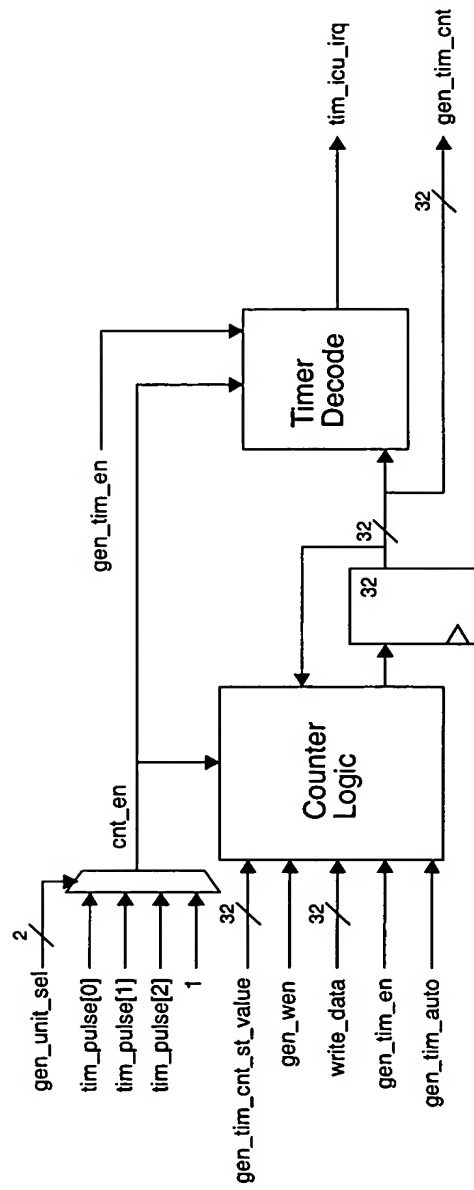


FIG. 65

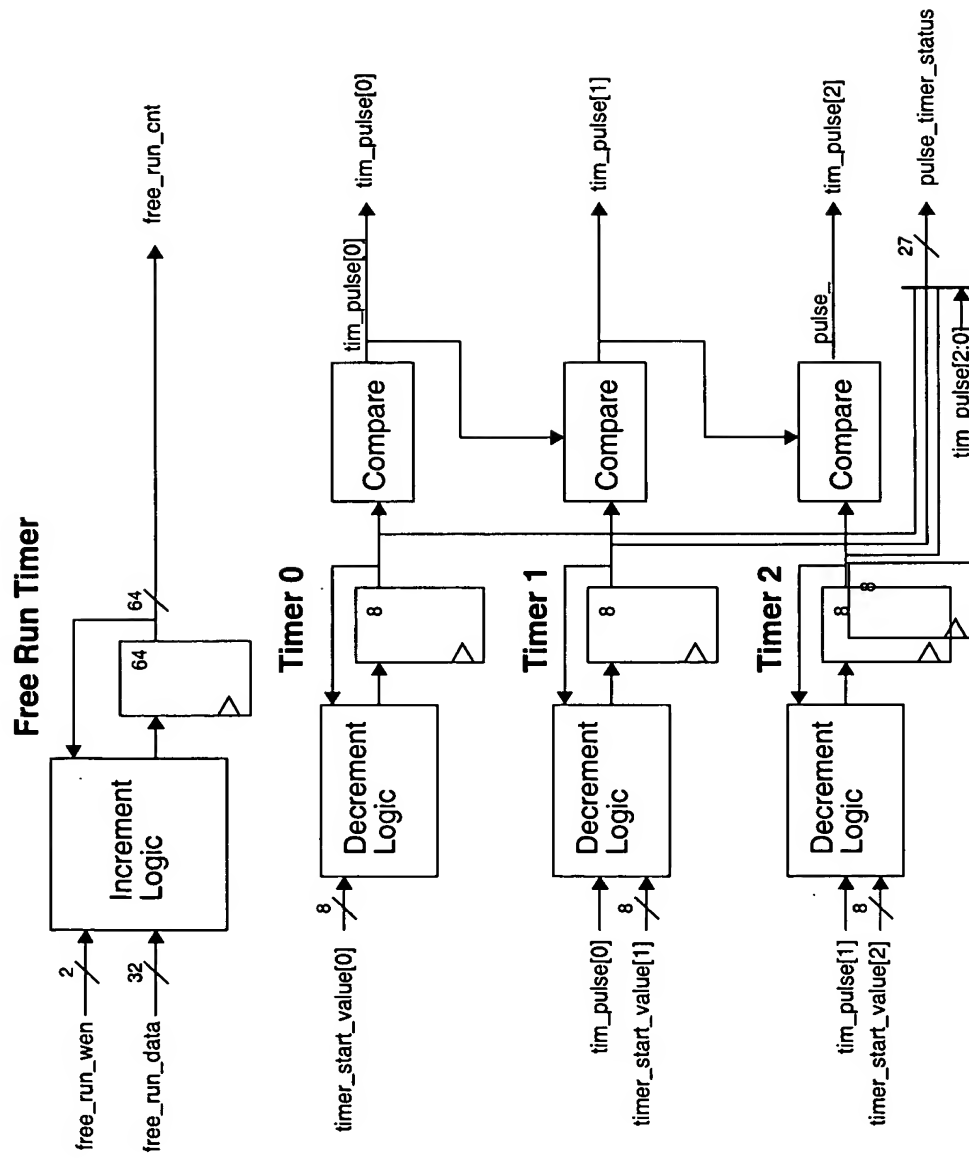


FIG. 66

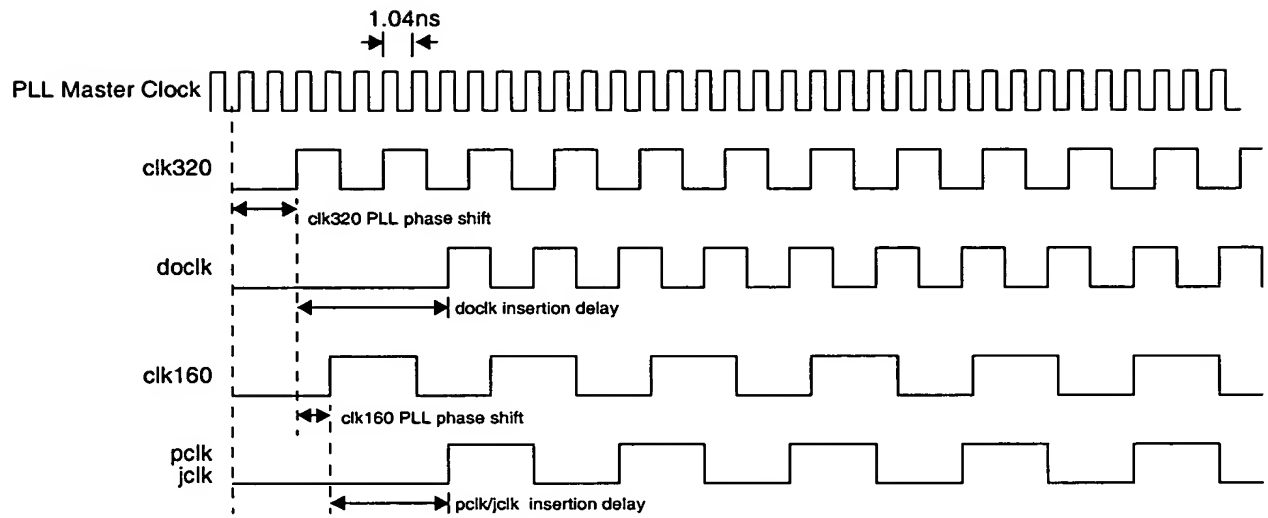


FIG. 67

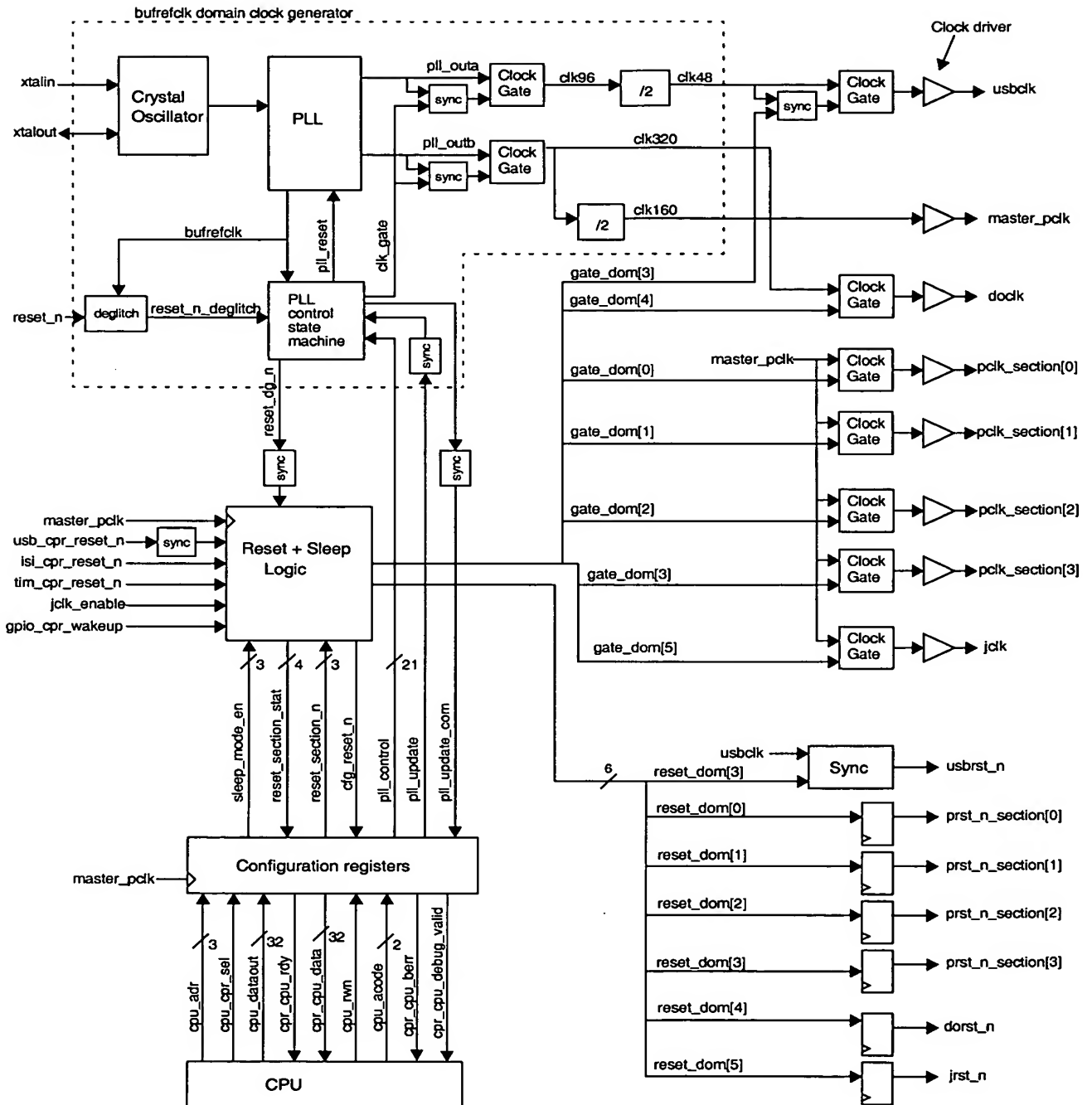


FIG. 68

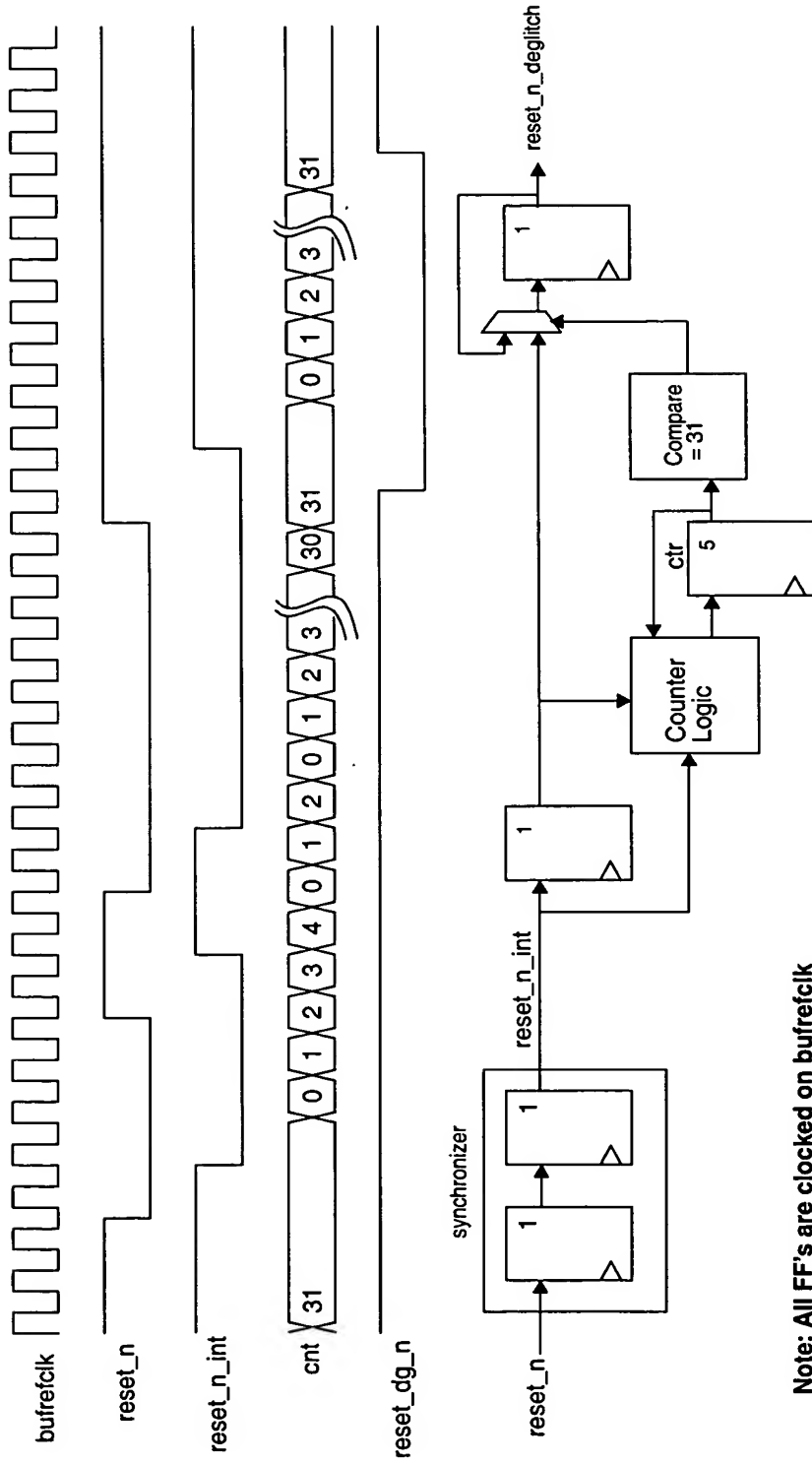


FIG. 69

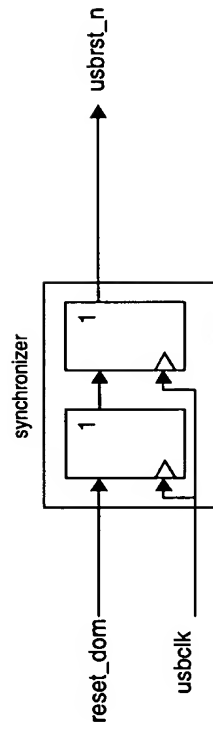
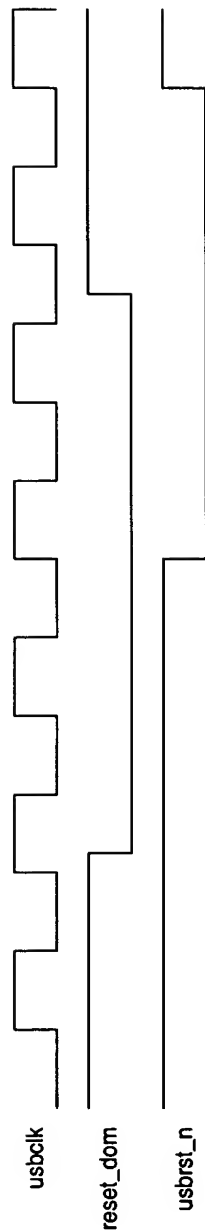


FIG. 70

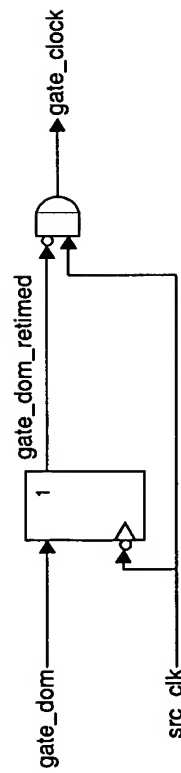
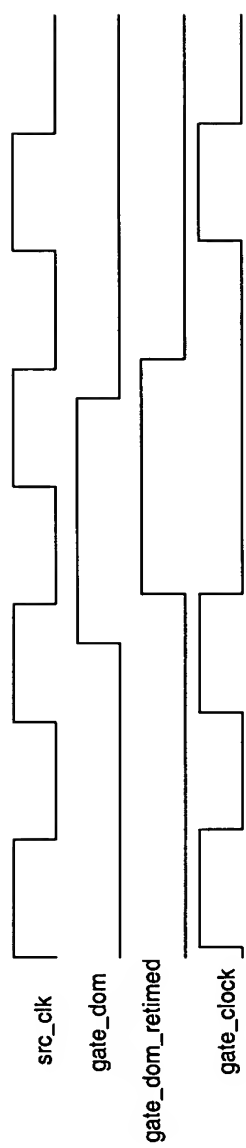
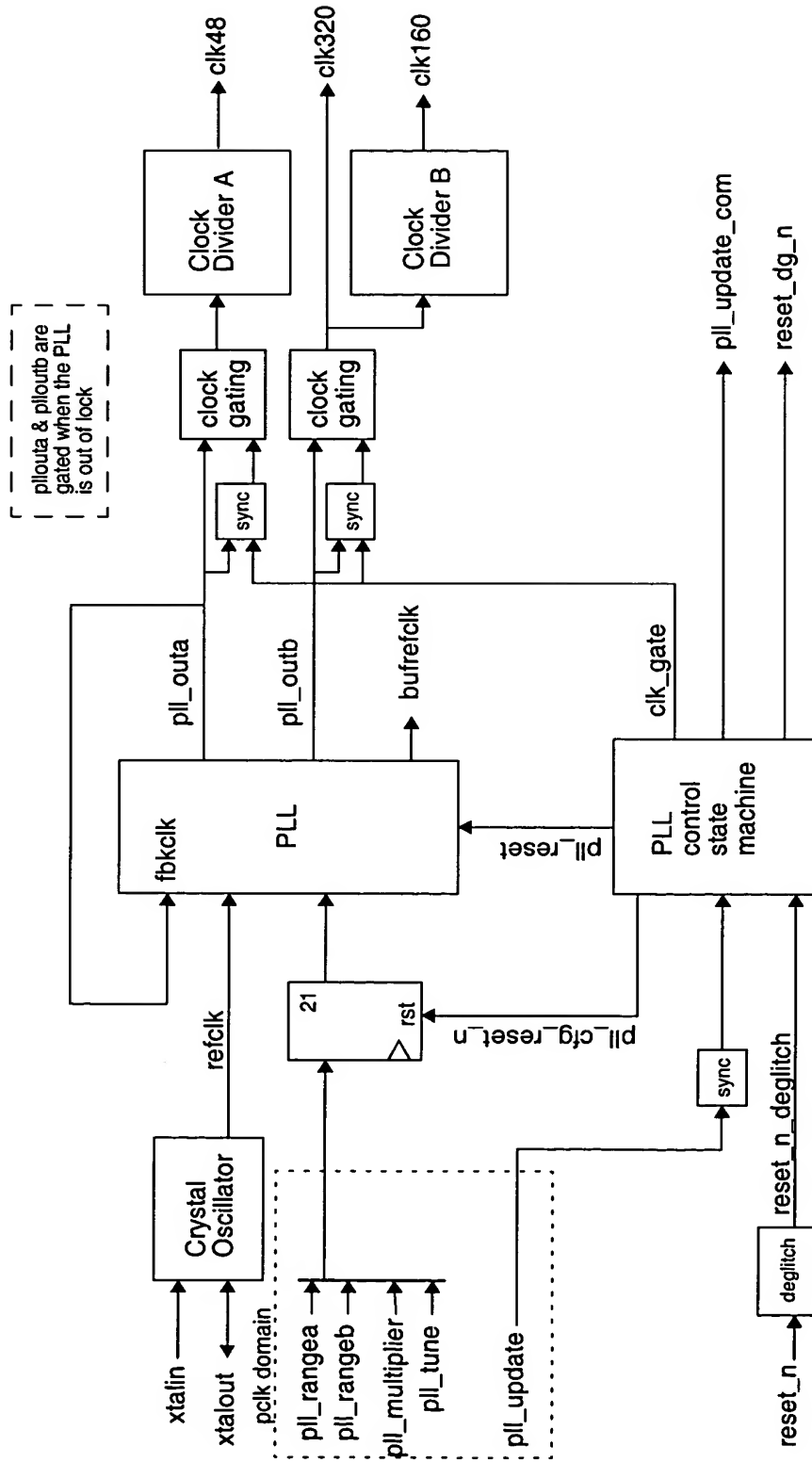


FIG. 71



Note: All logic clocked on bufrefclk unless otherwise indicated

FIG. 72

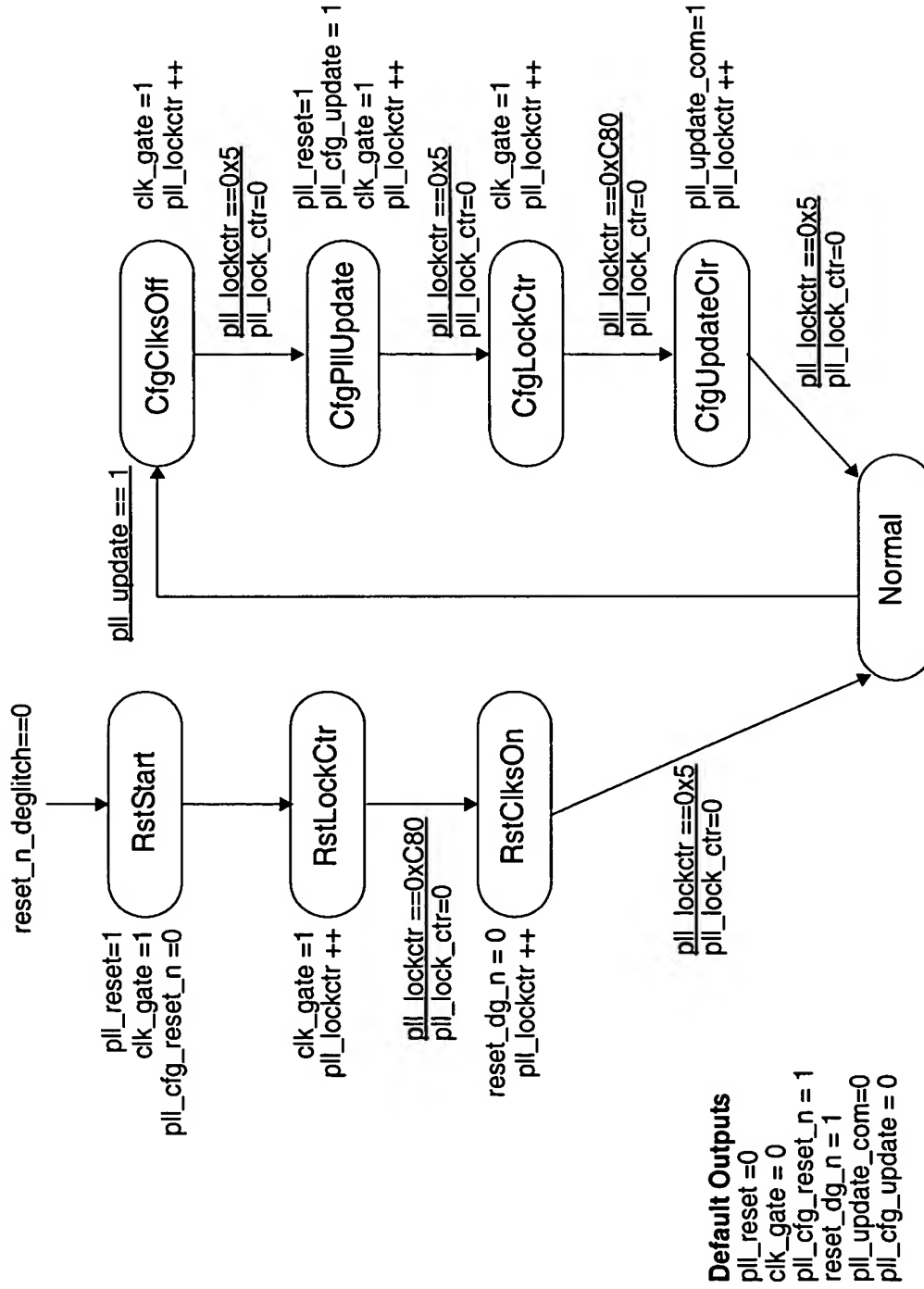


FIG. 73

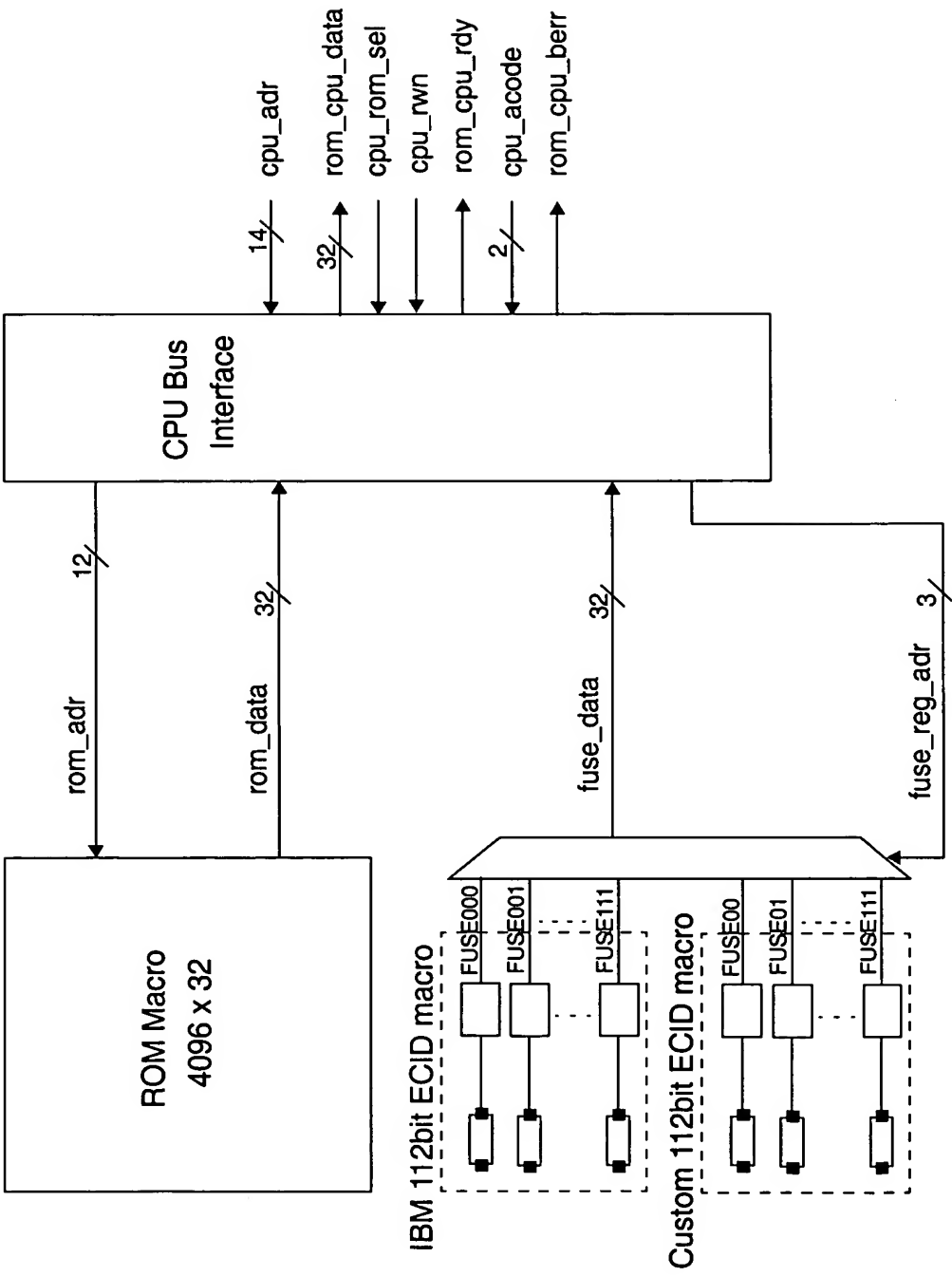


FIG. 74

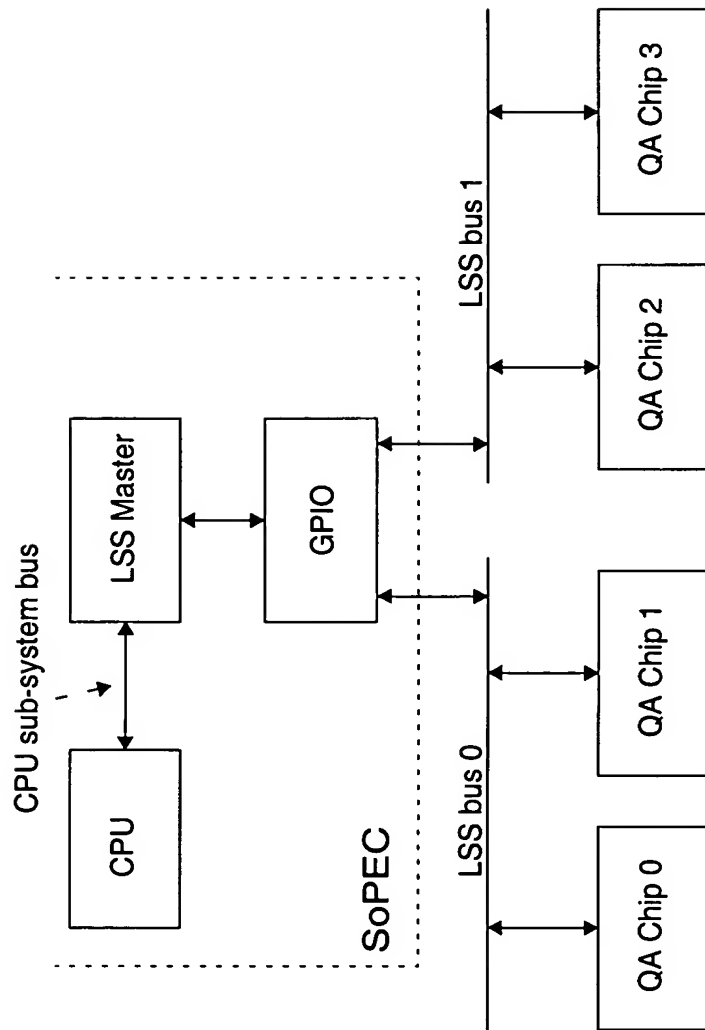


FIG. 75

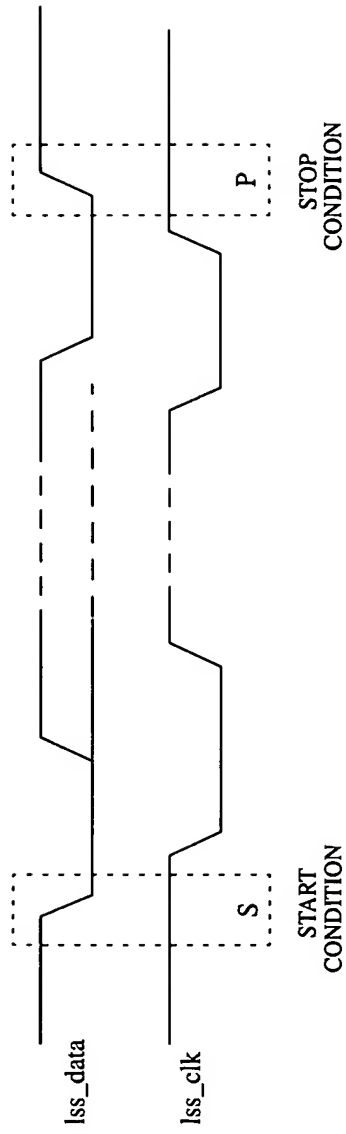


FIG. 76

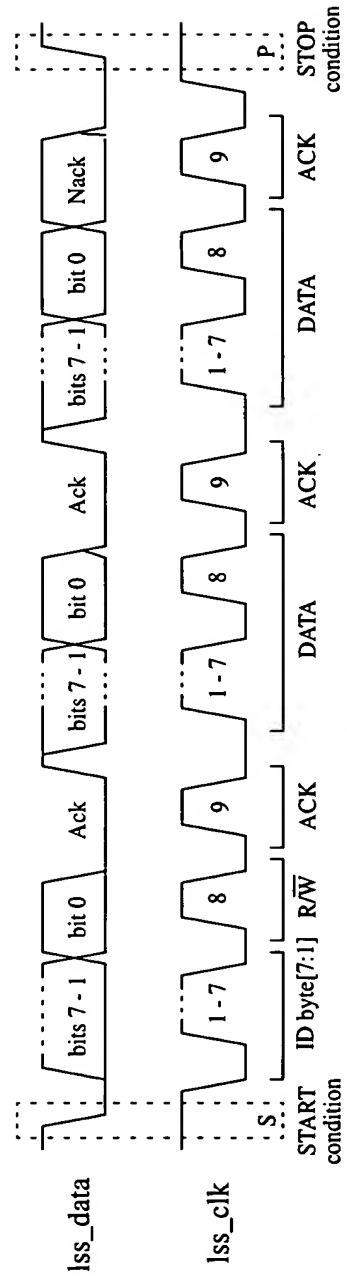


FIG. 77

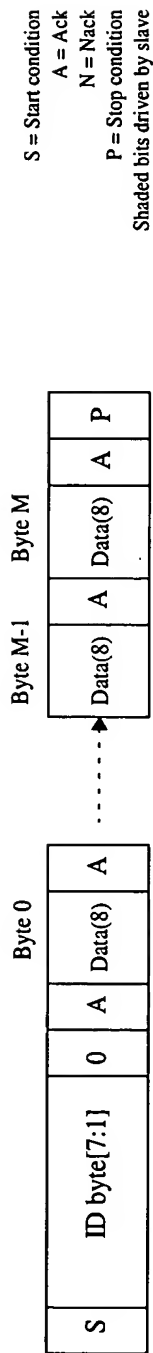


FIG. 78

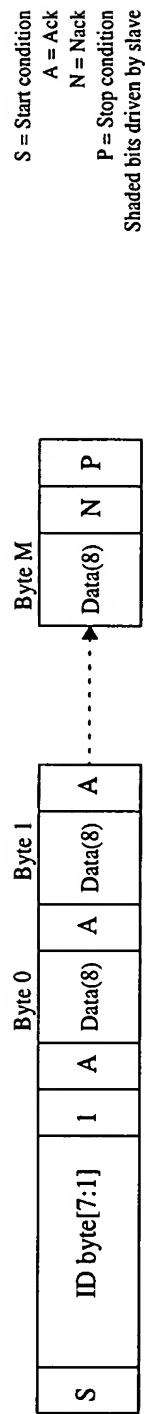


FIG. 79

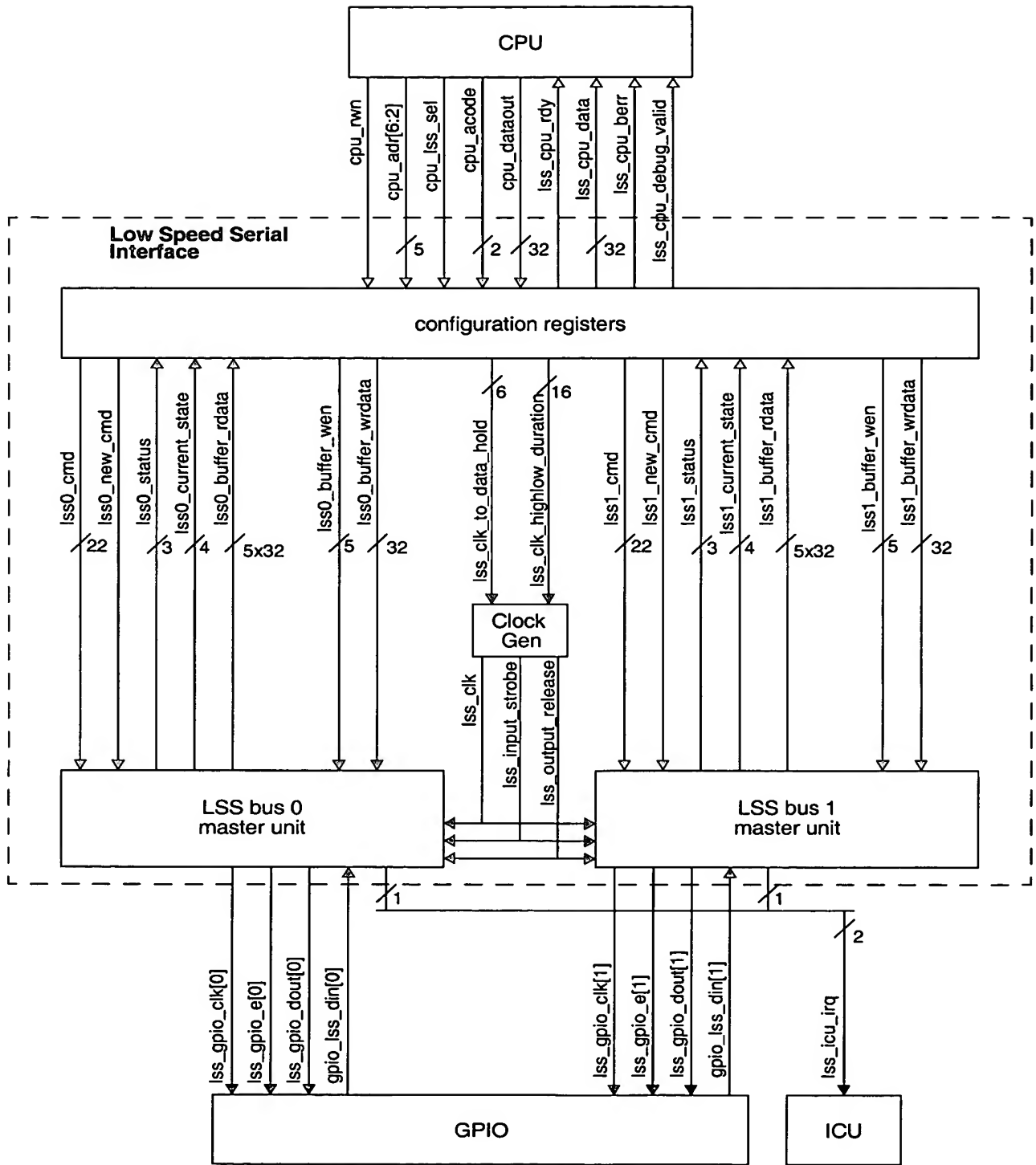


FIG. 80

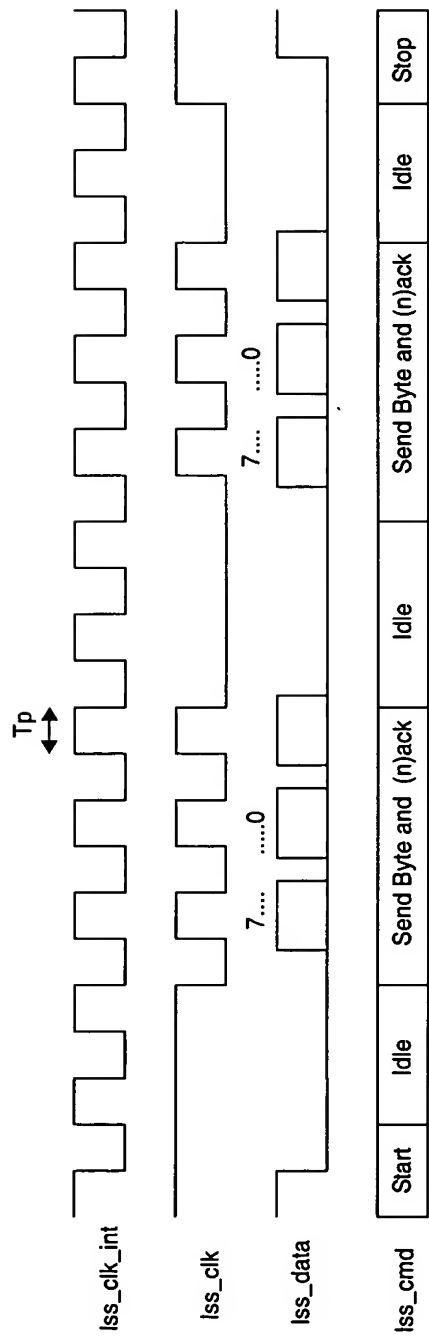


FIG. 81

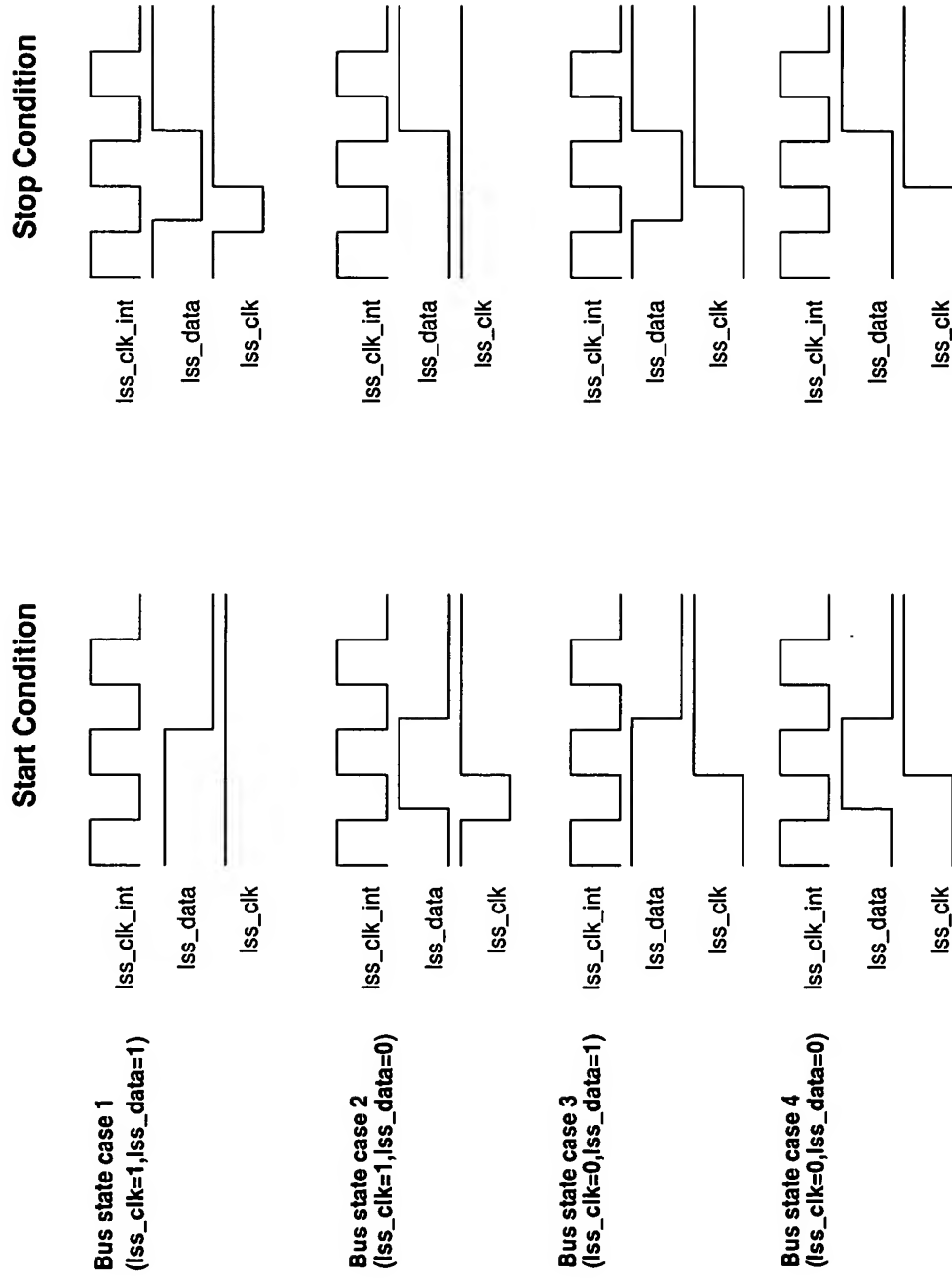


FIG. 82

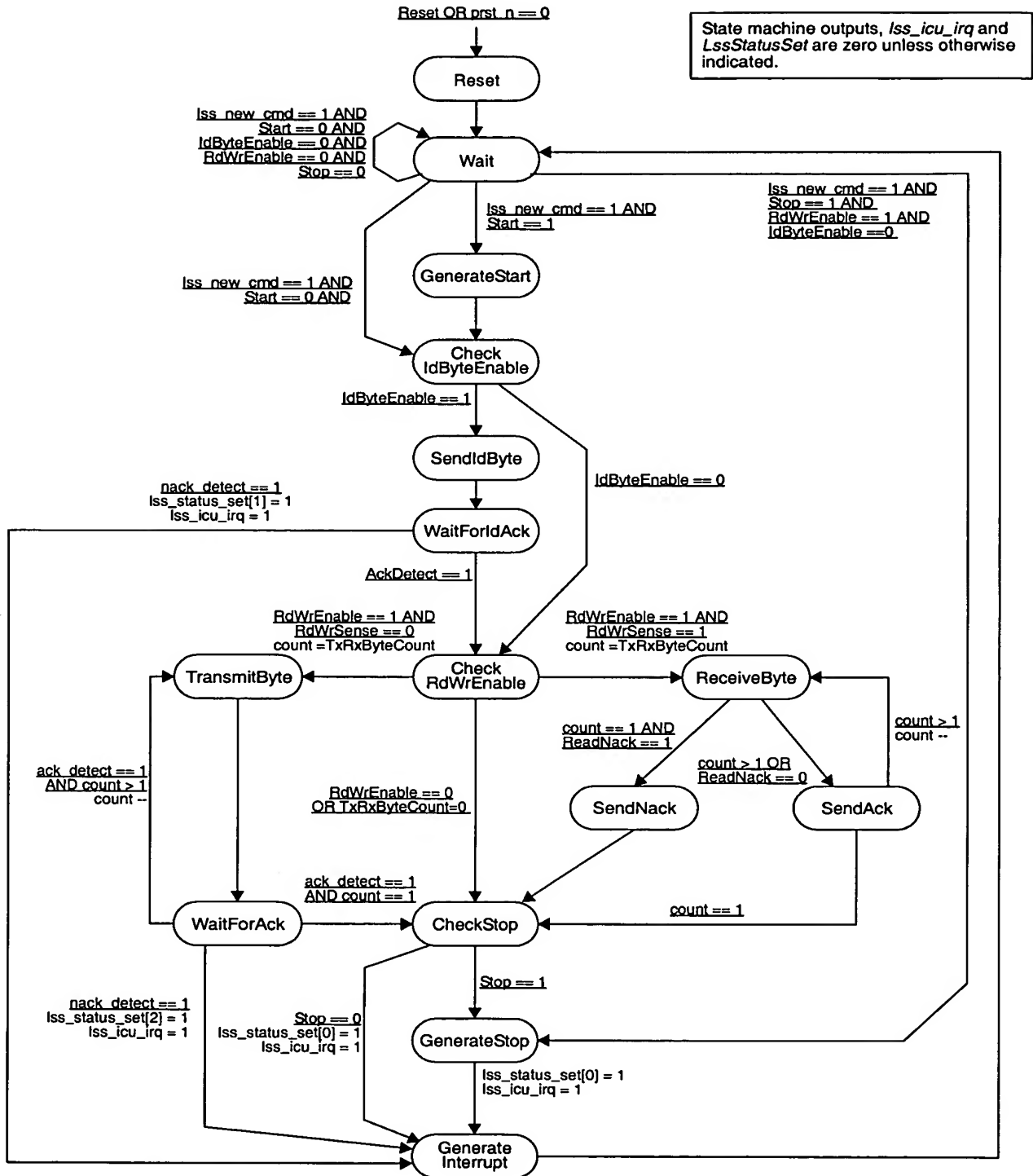


FIG. 83

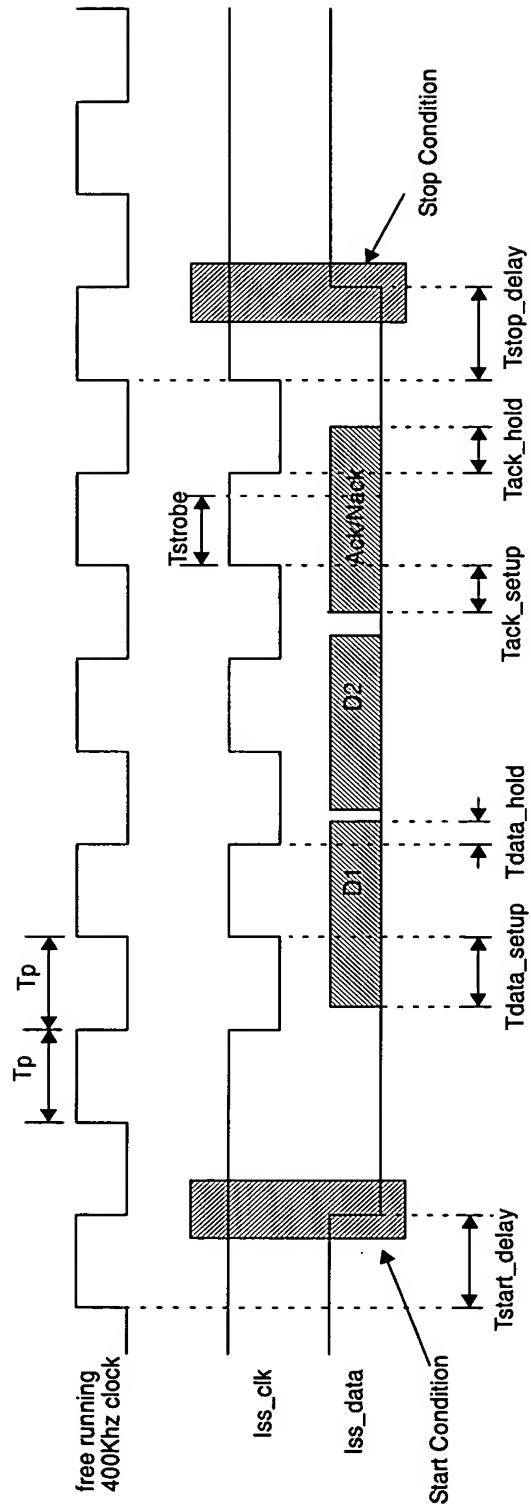


FIG. 84

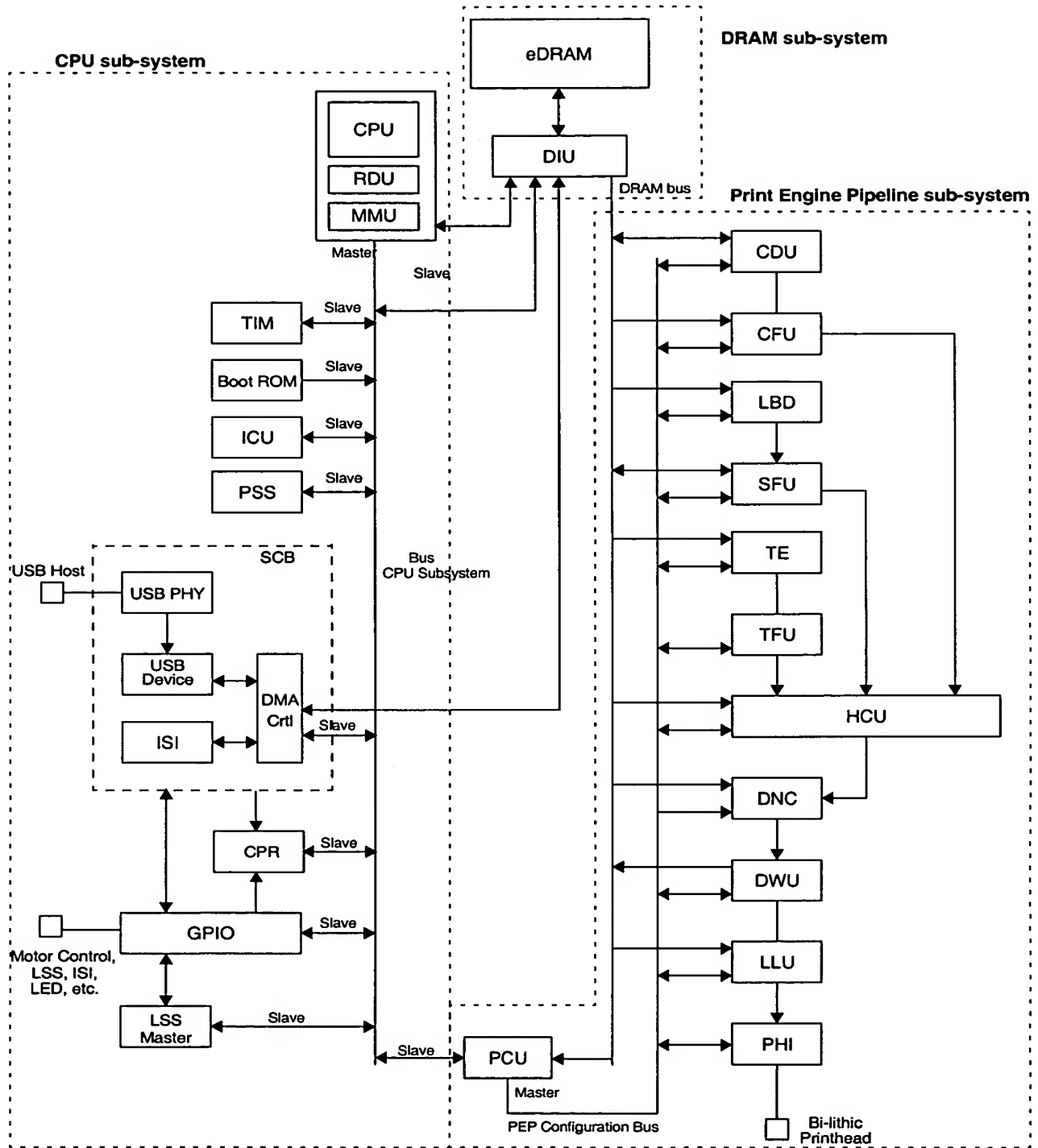


FIG. 85

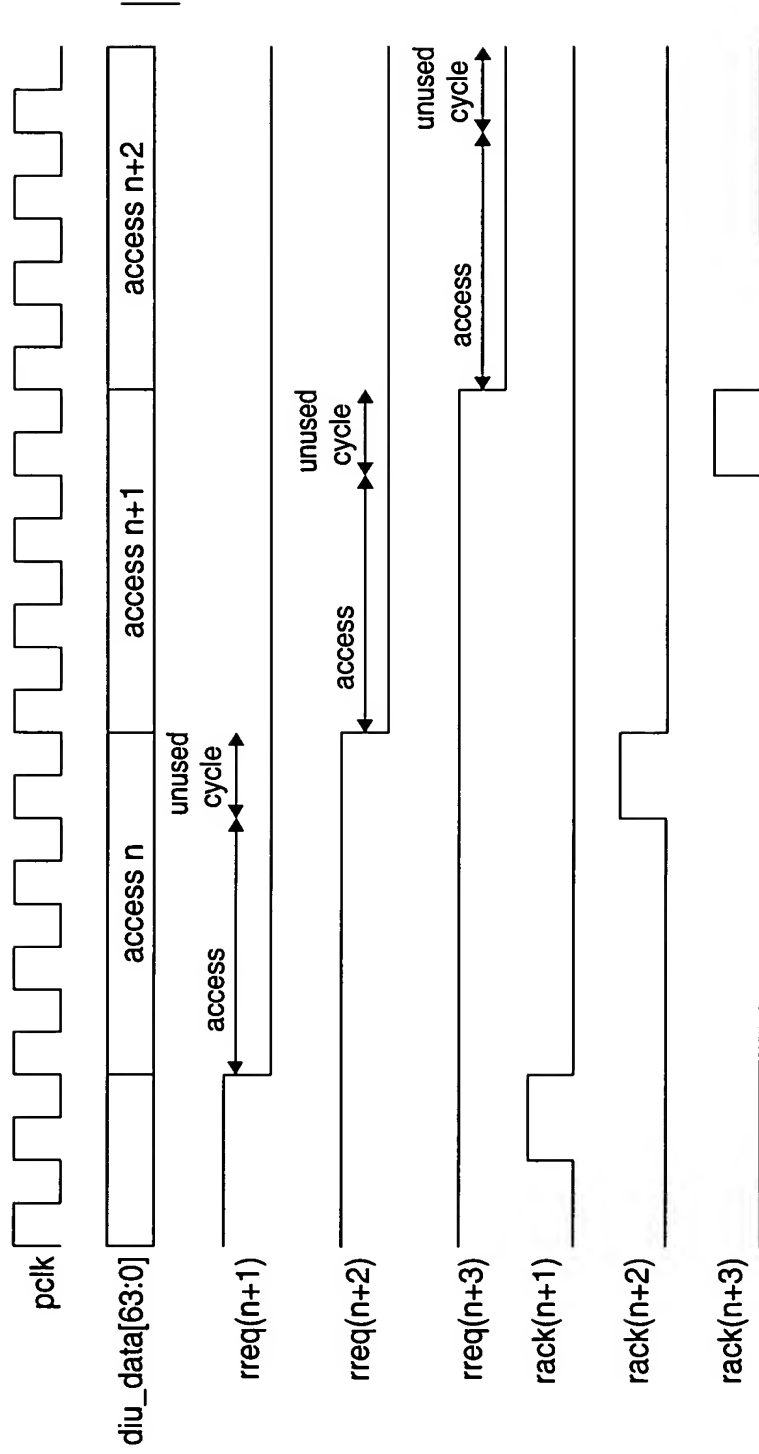


FIG. 86

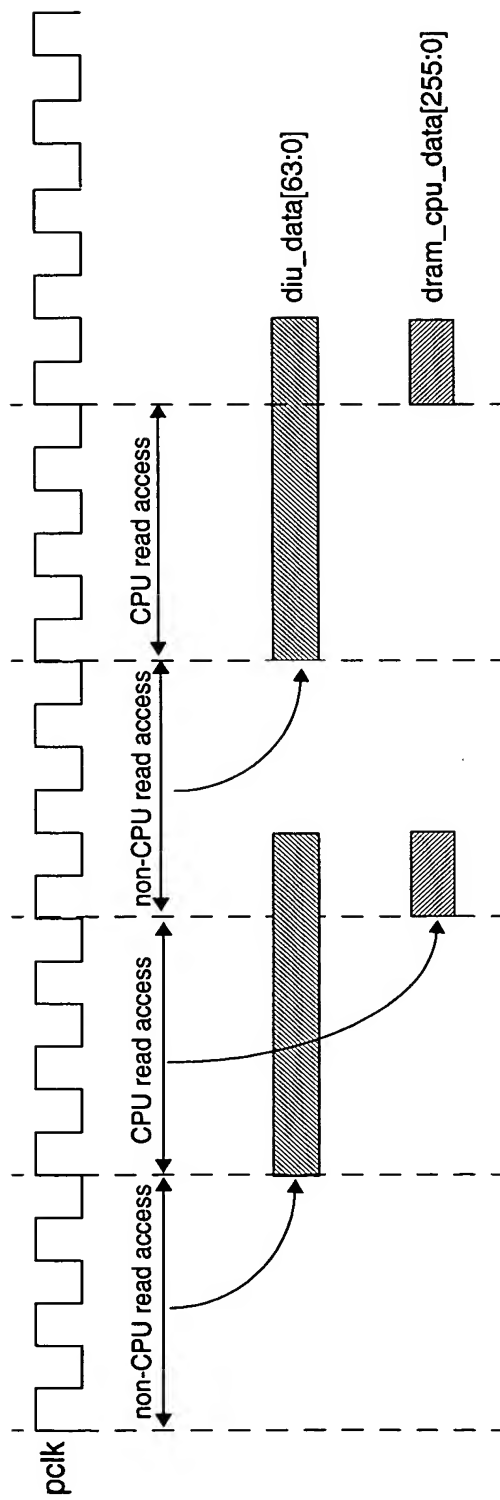


FIG. 87

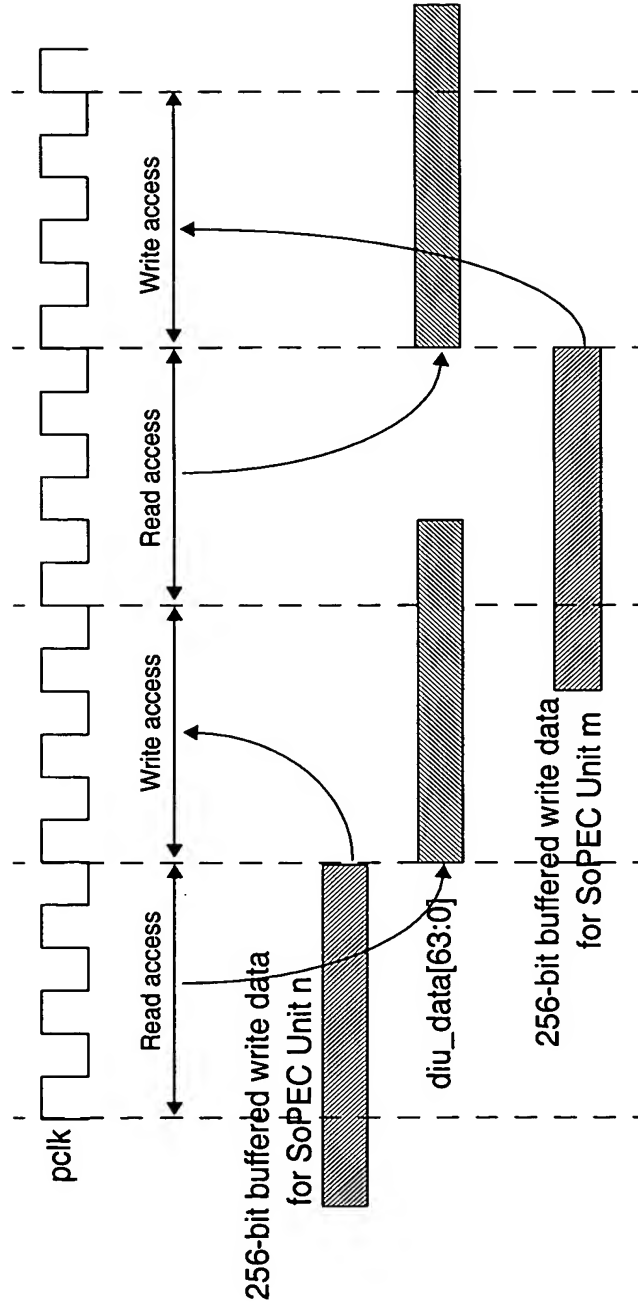


FIG. 88

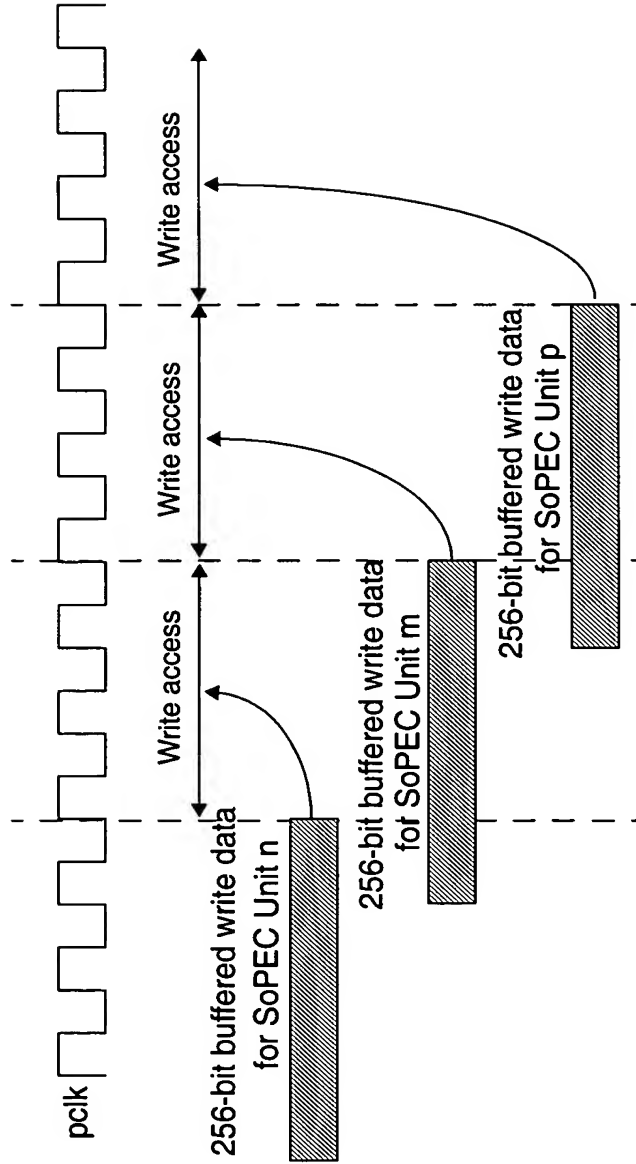


FIG. 89

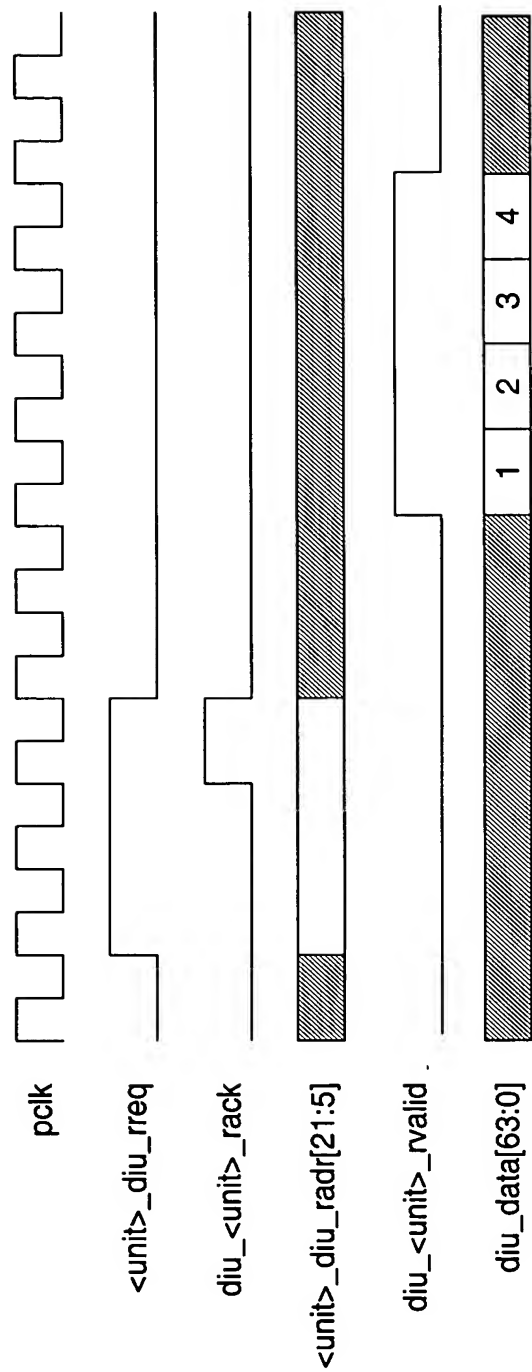


FIG. 90

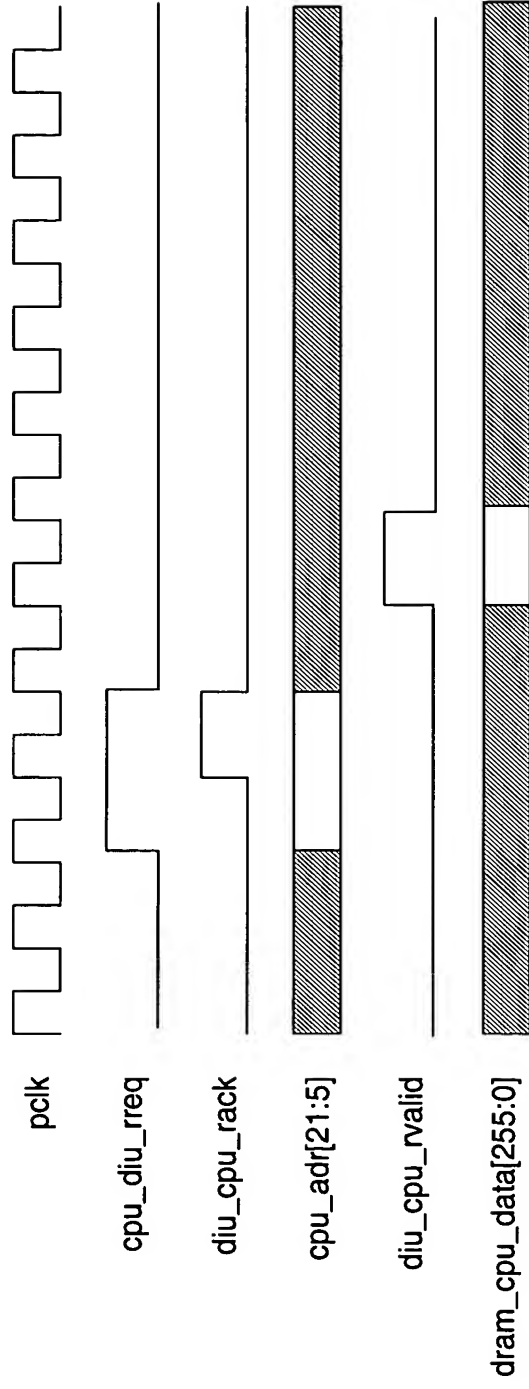


FIG. 91

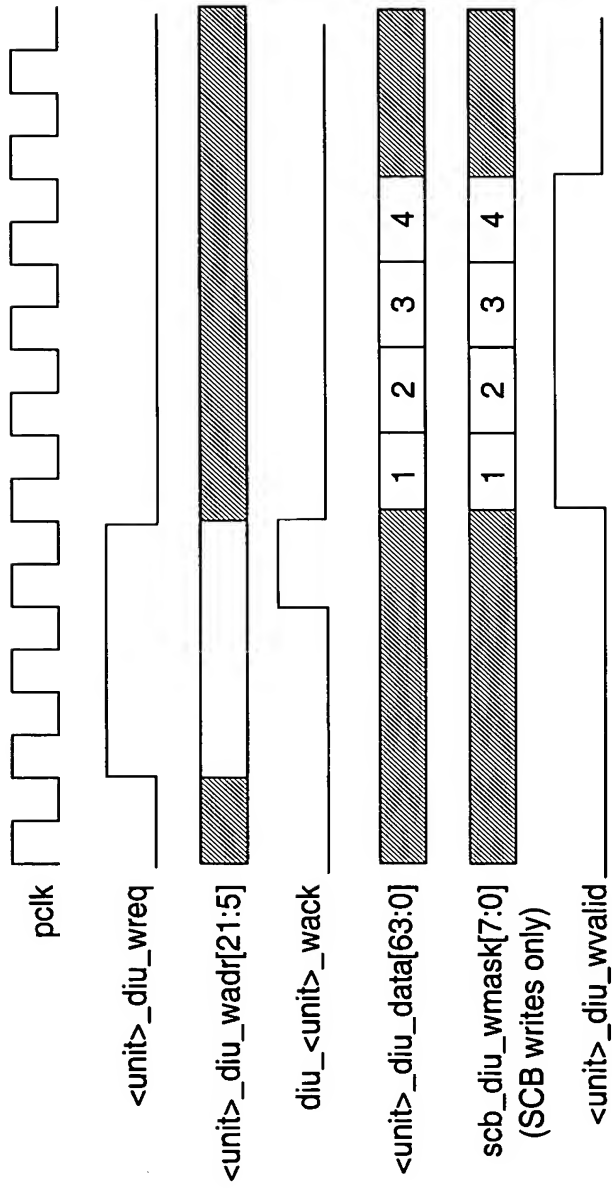


FIG. 92

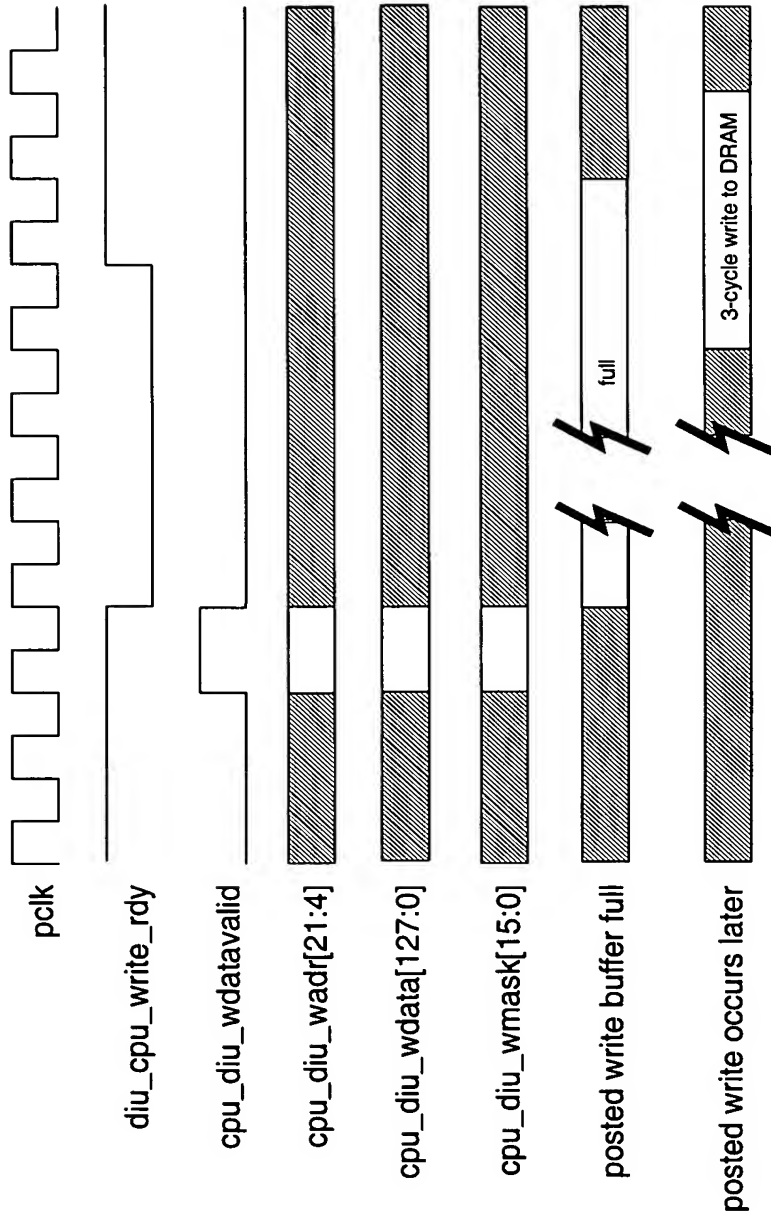


FIG. 93

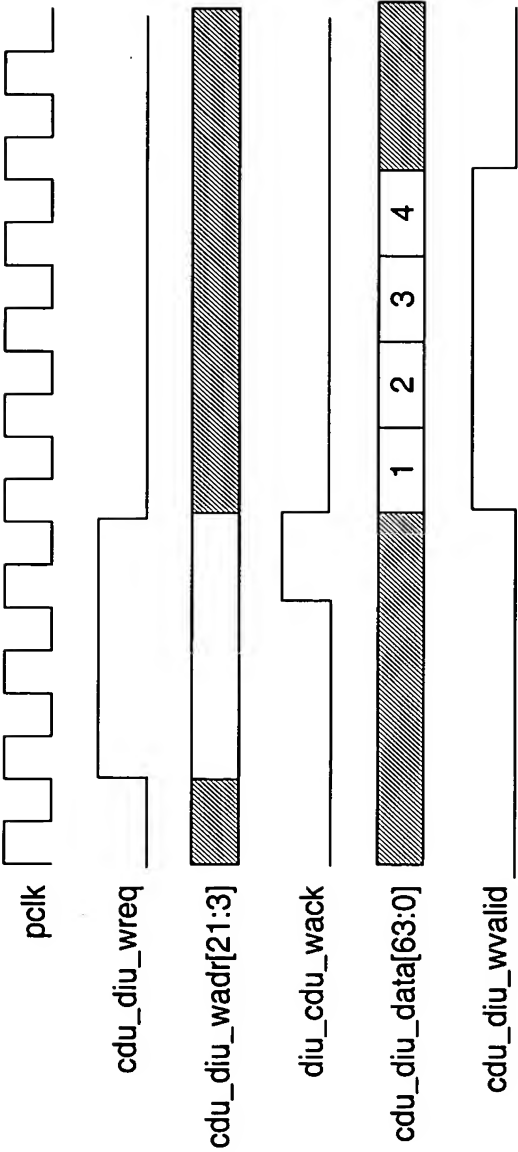
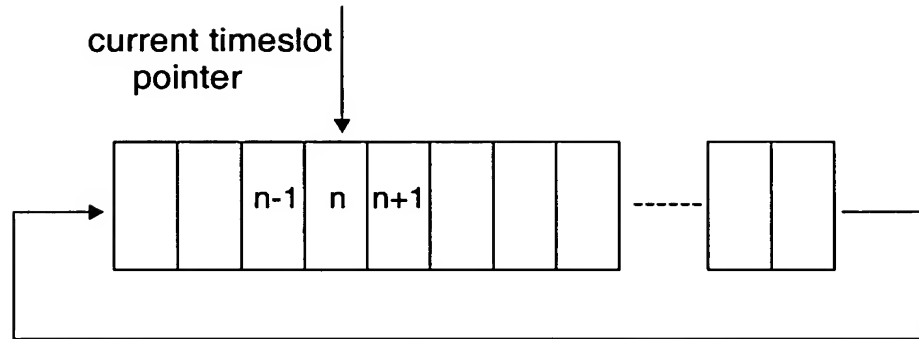
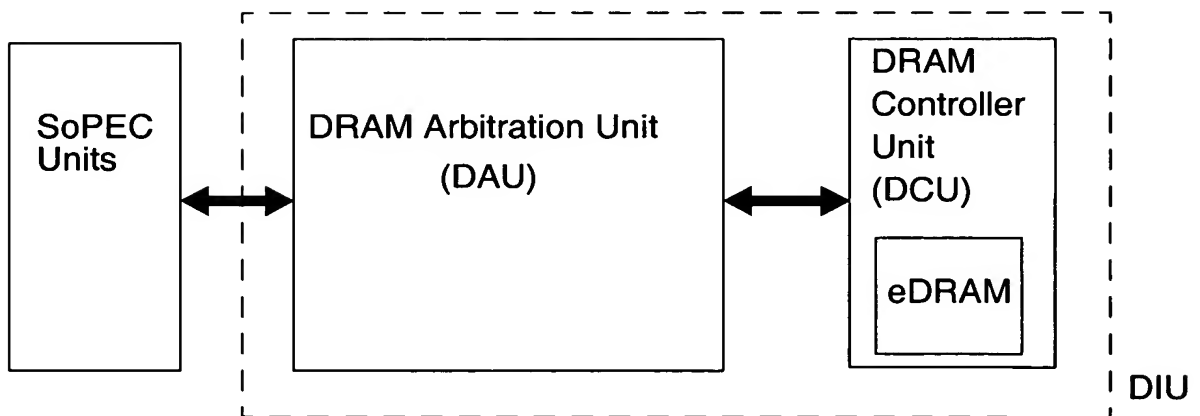


FIG. 94

*FIG. 95**FIG. 100*

84/331

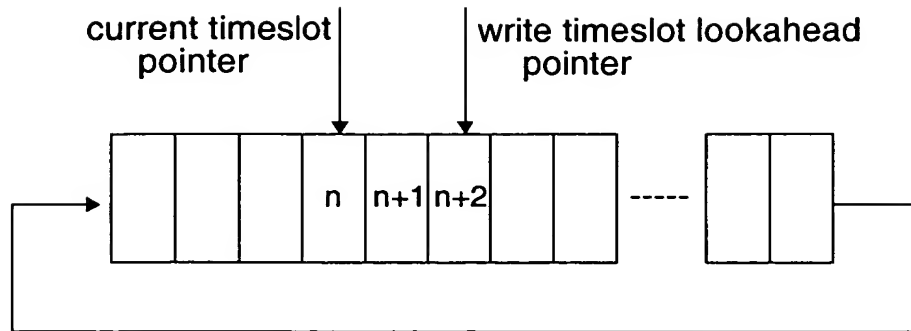


FIG. 96

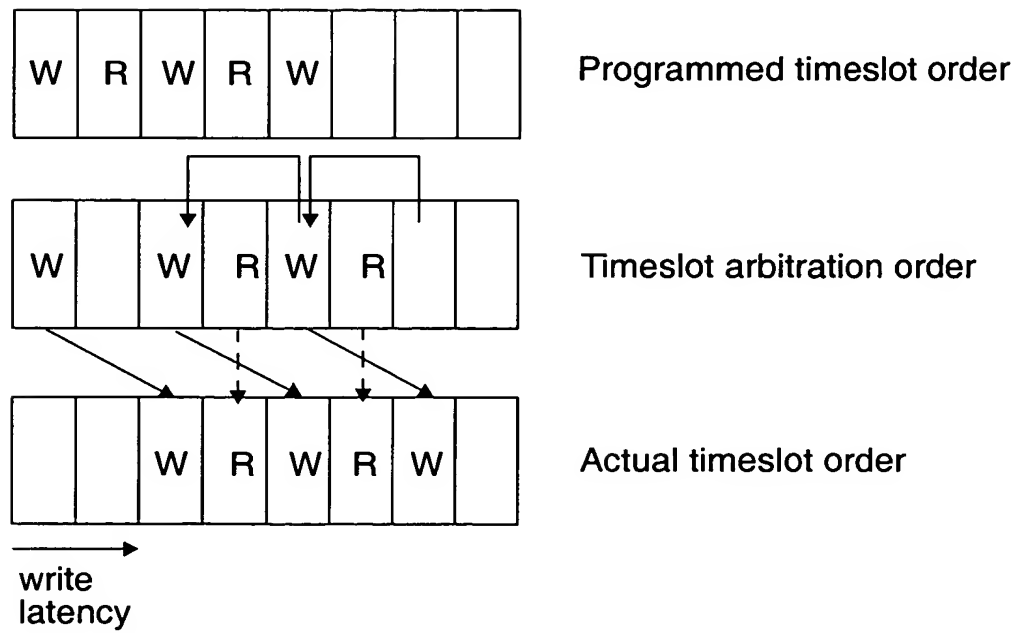


FIG. 97

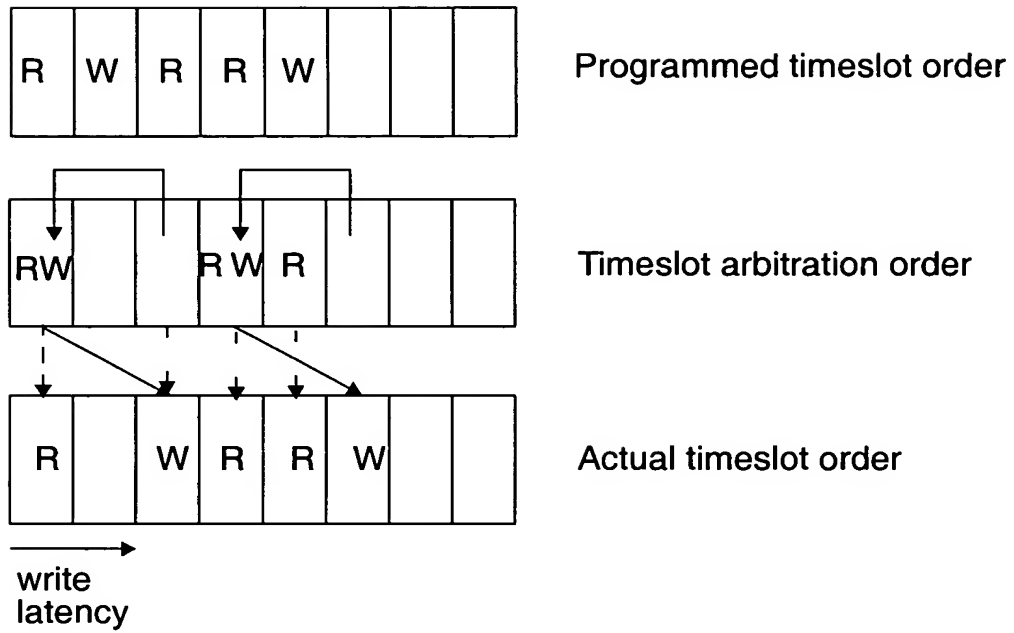


FIG. 98

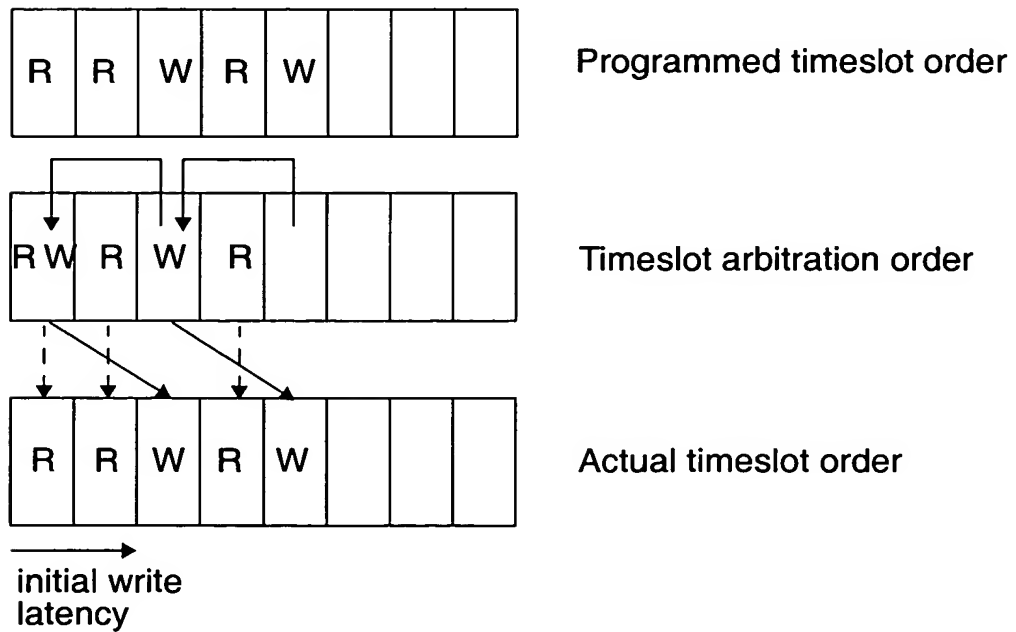


FIG. 99

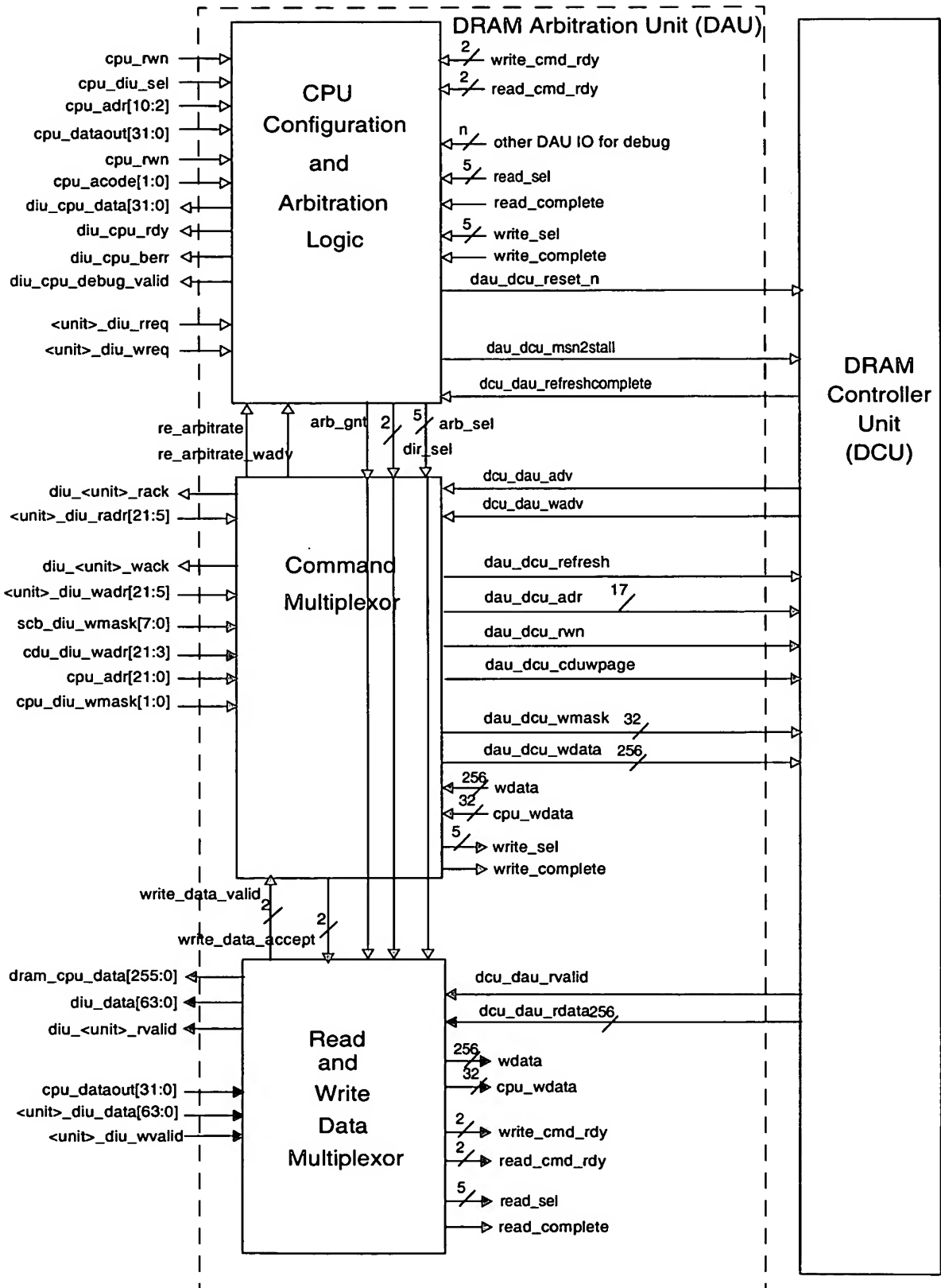


FIG. 101

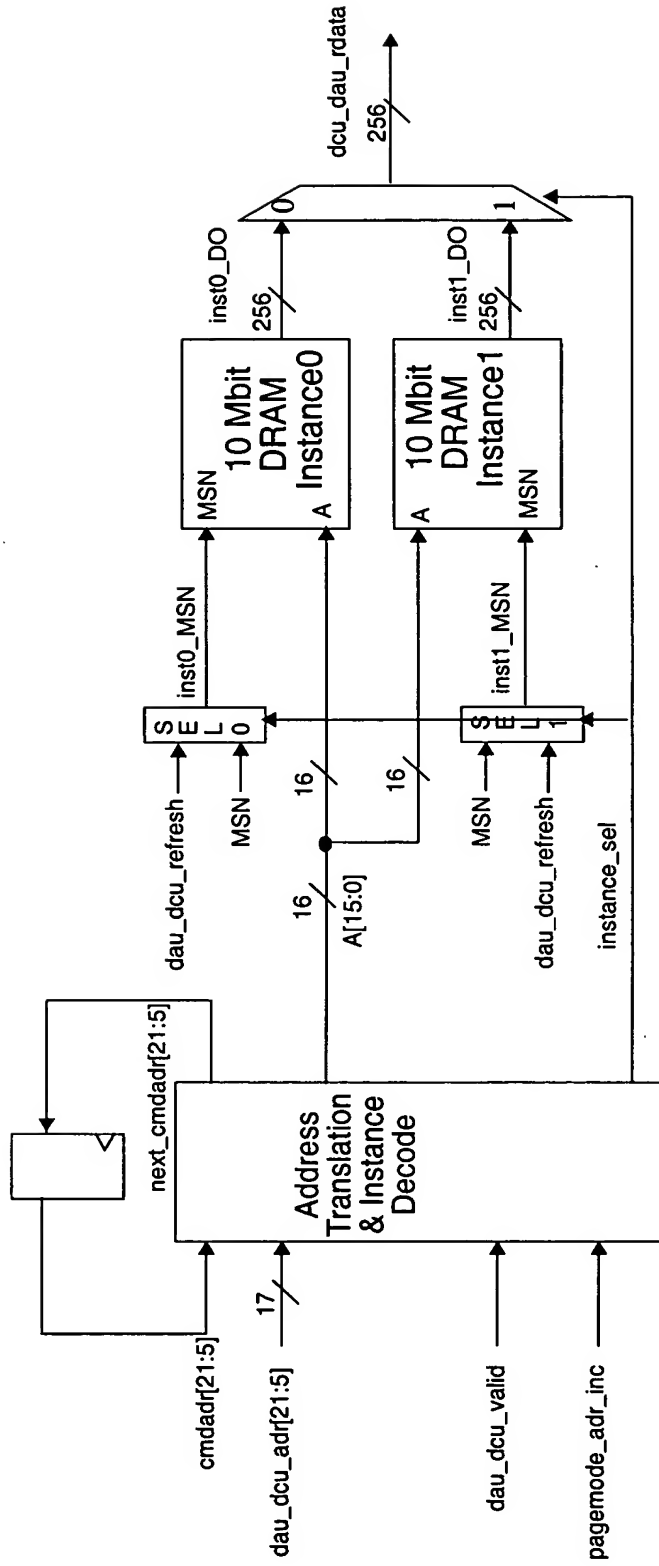


FIG. 102

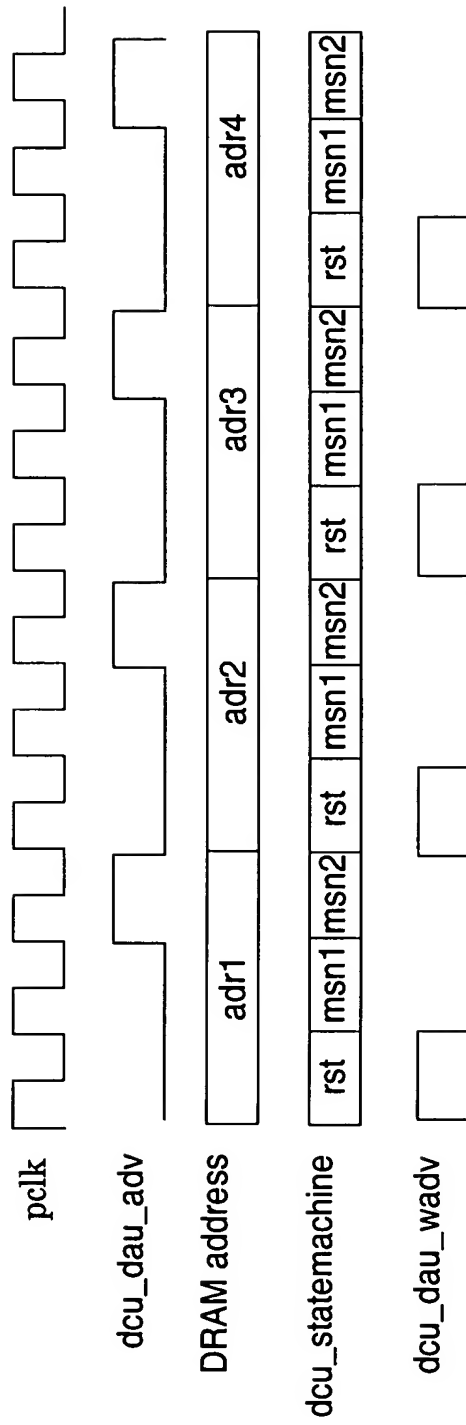


FIG. 103

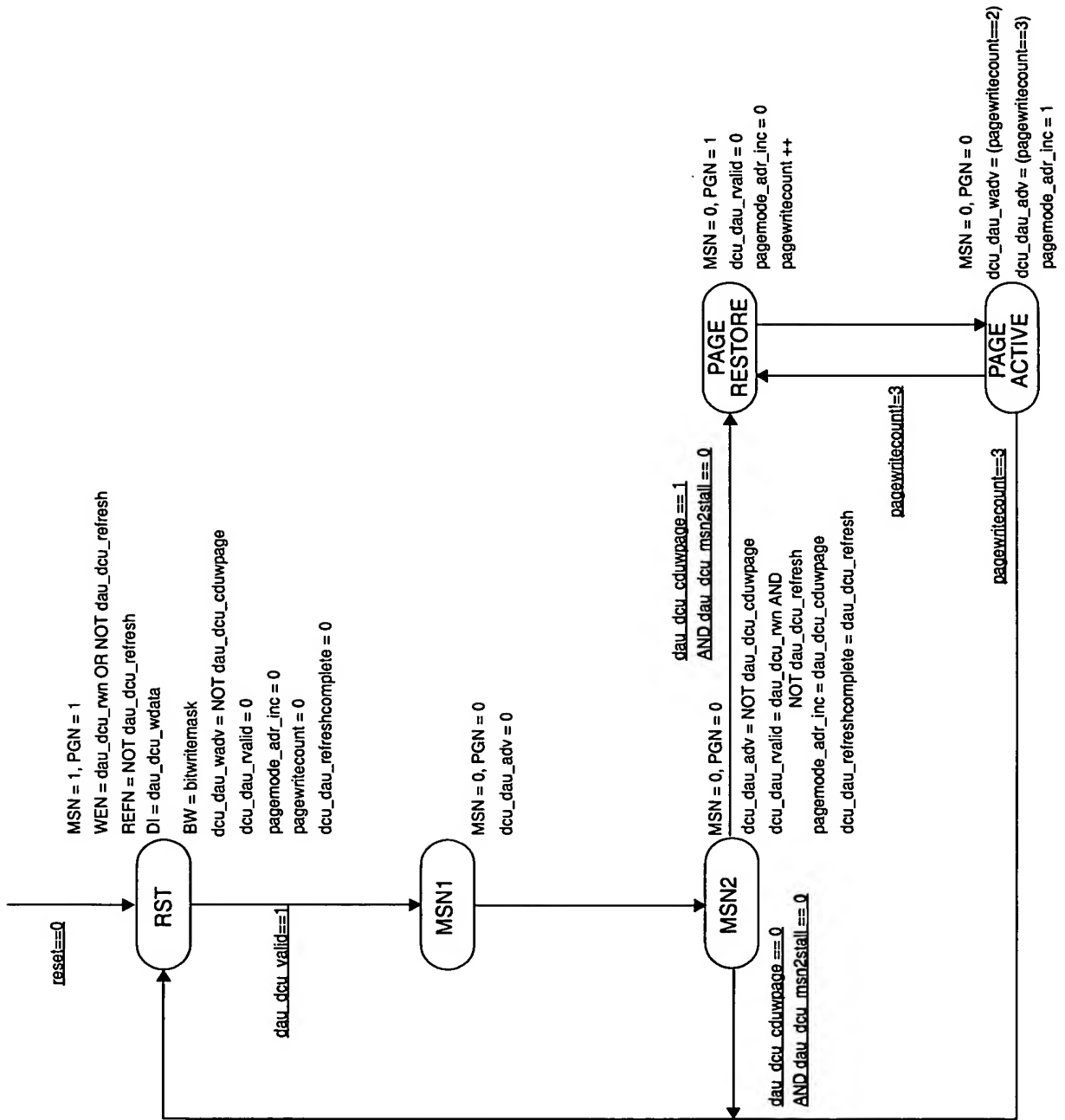


FIG. 104

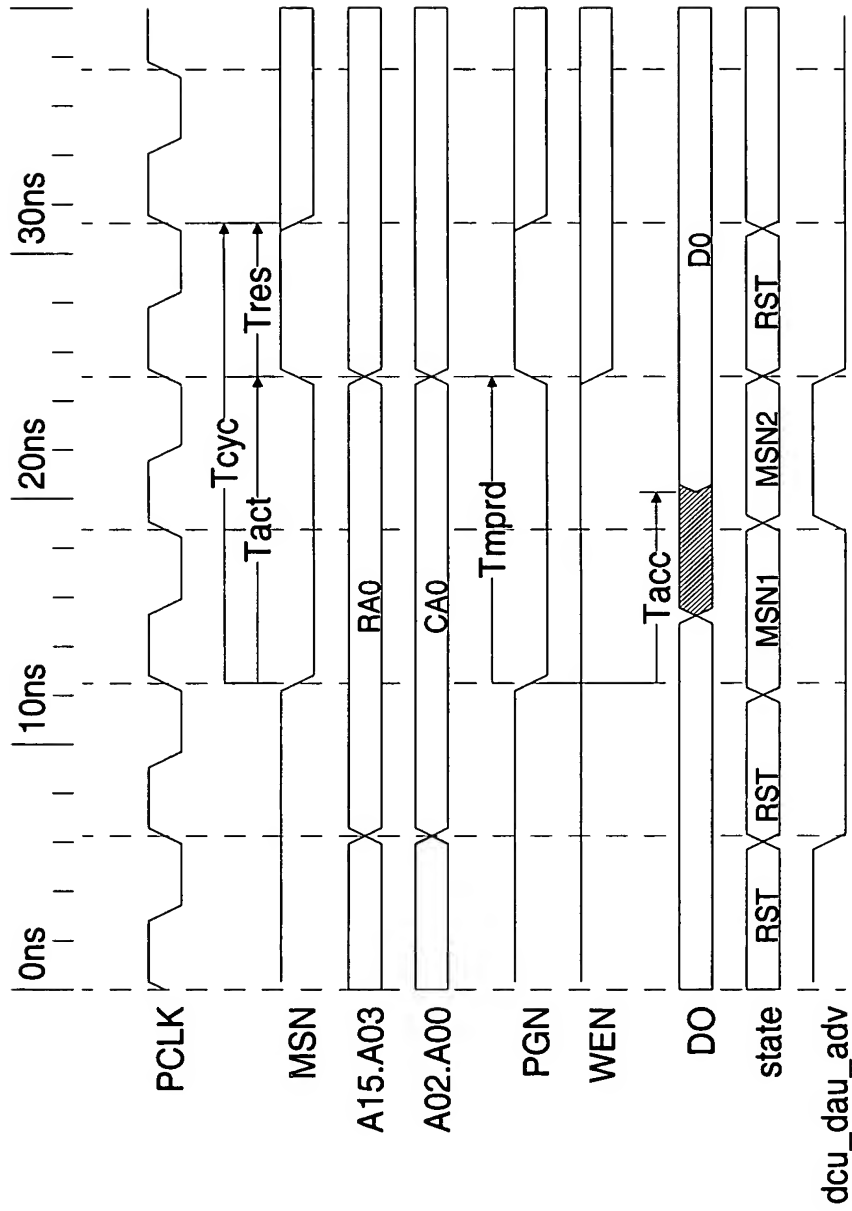


FIG. 105

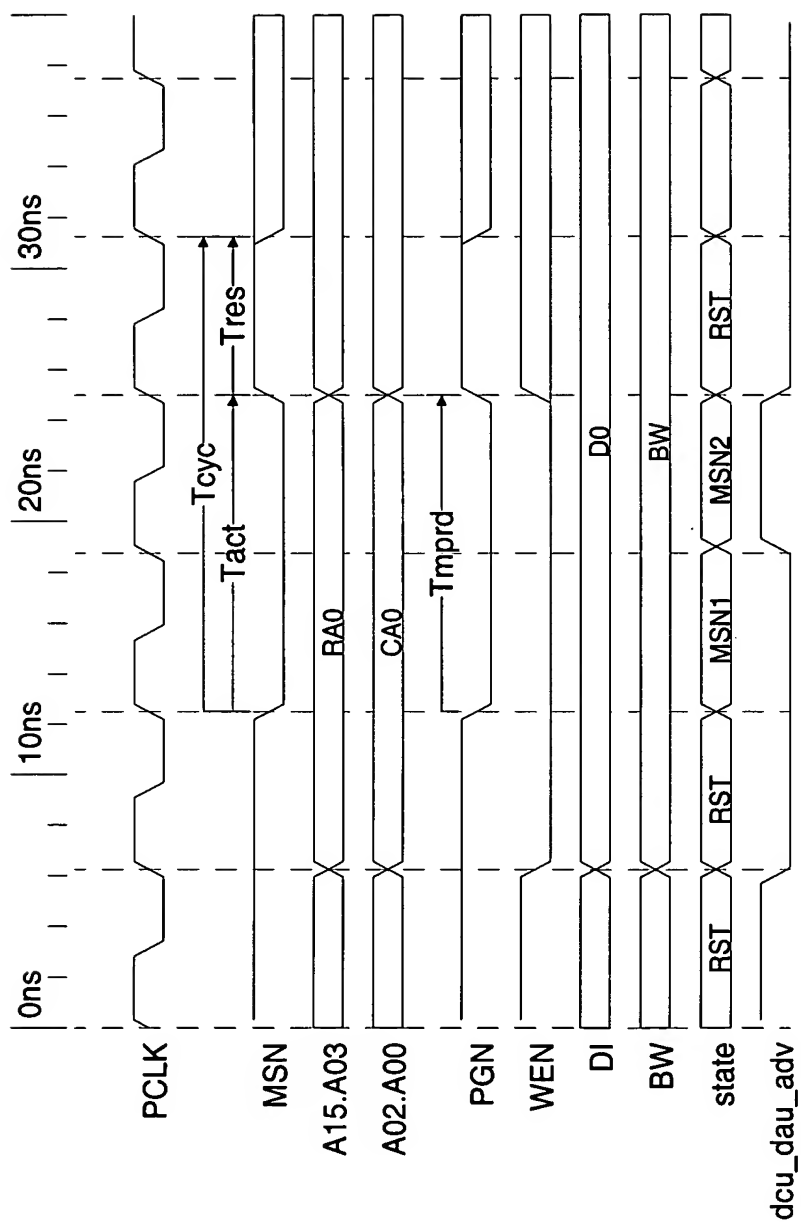


FIG. 106

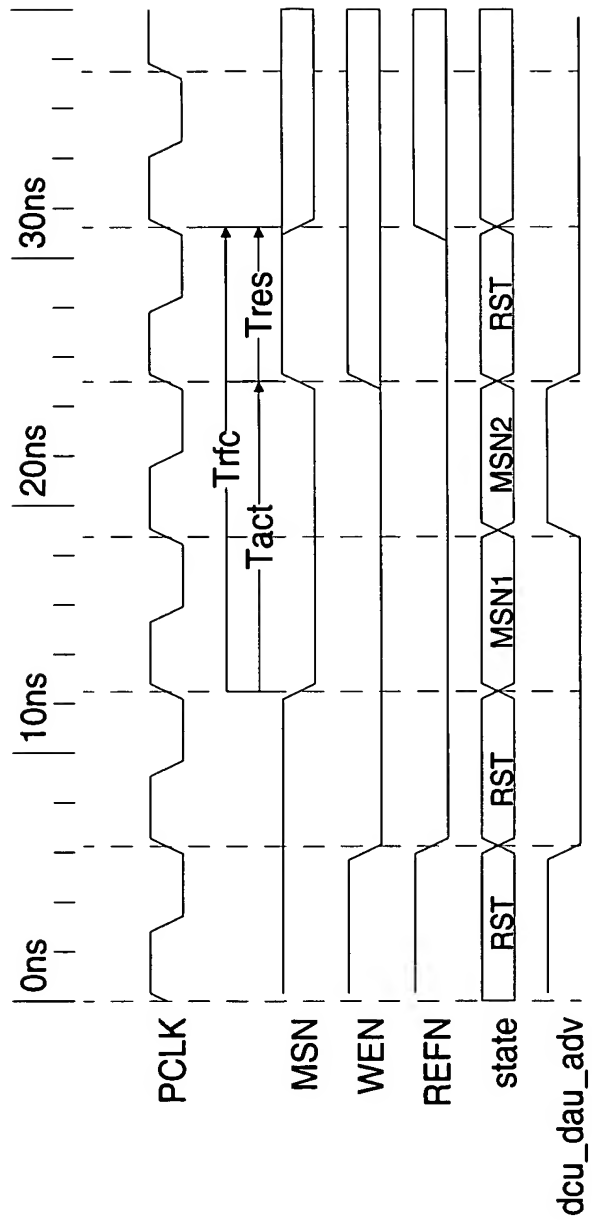


FIG. 107

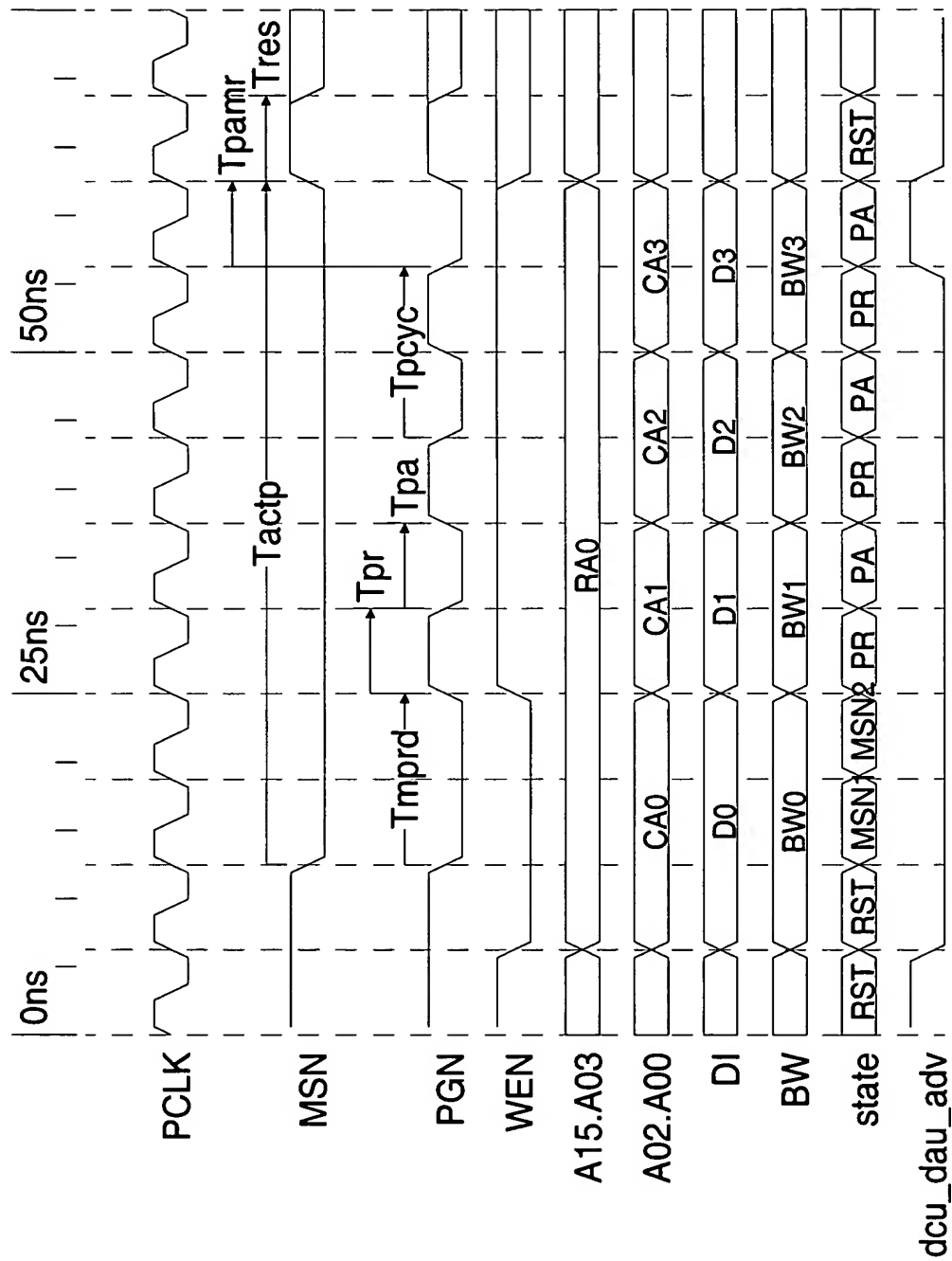
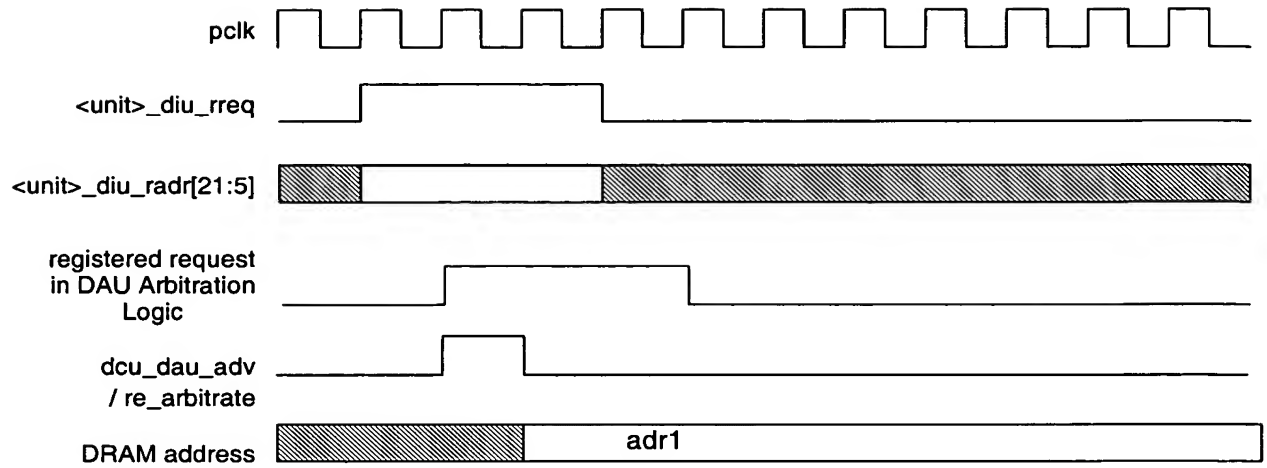
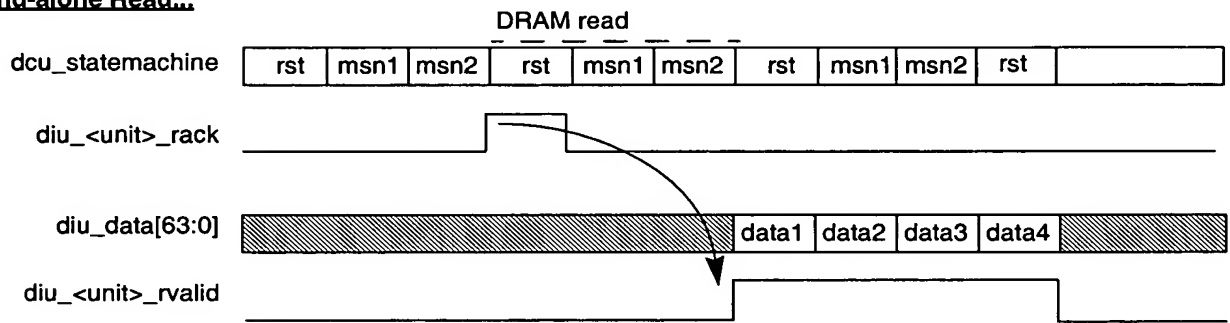


FIG. 108



Stand-alone Read...



Back-to-Back Reads...

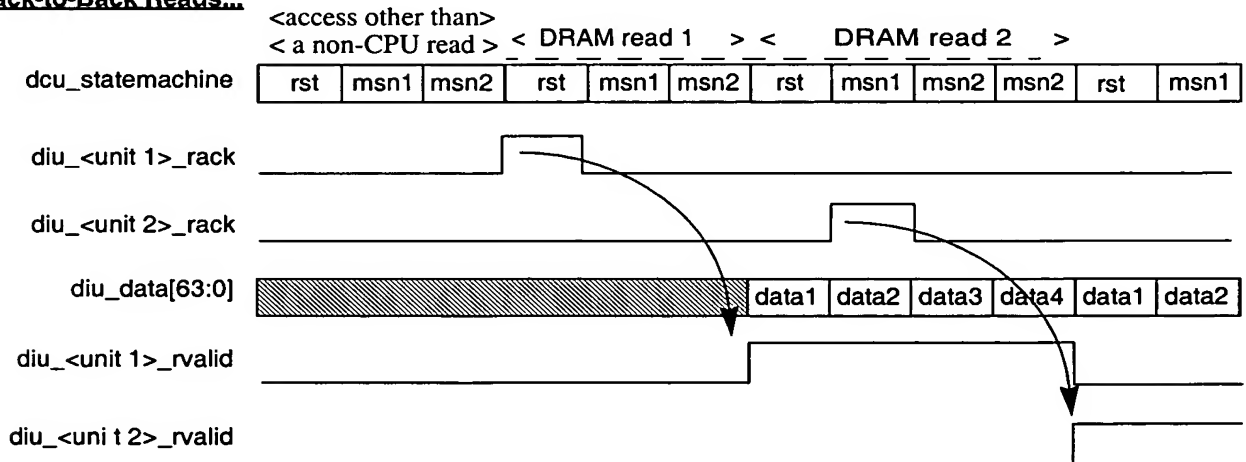


FIG. 109

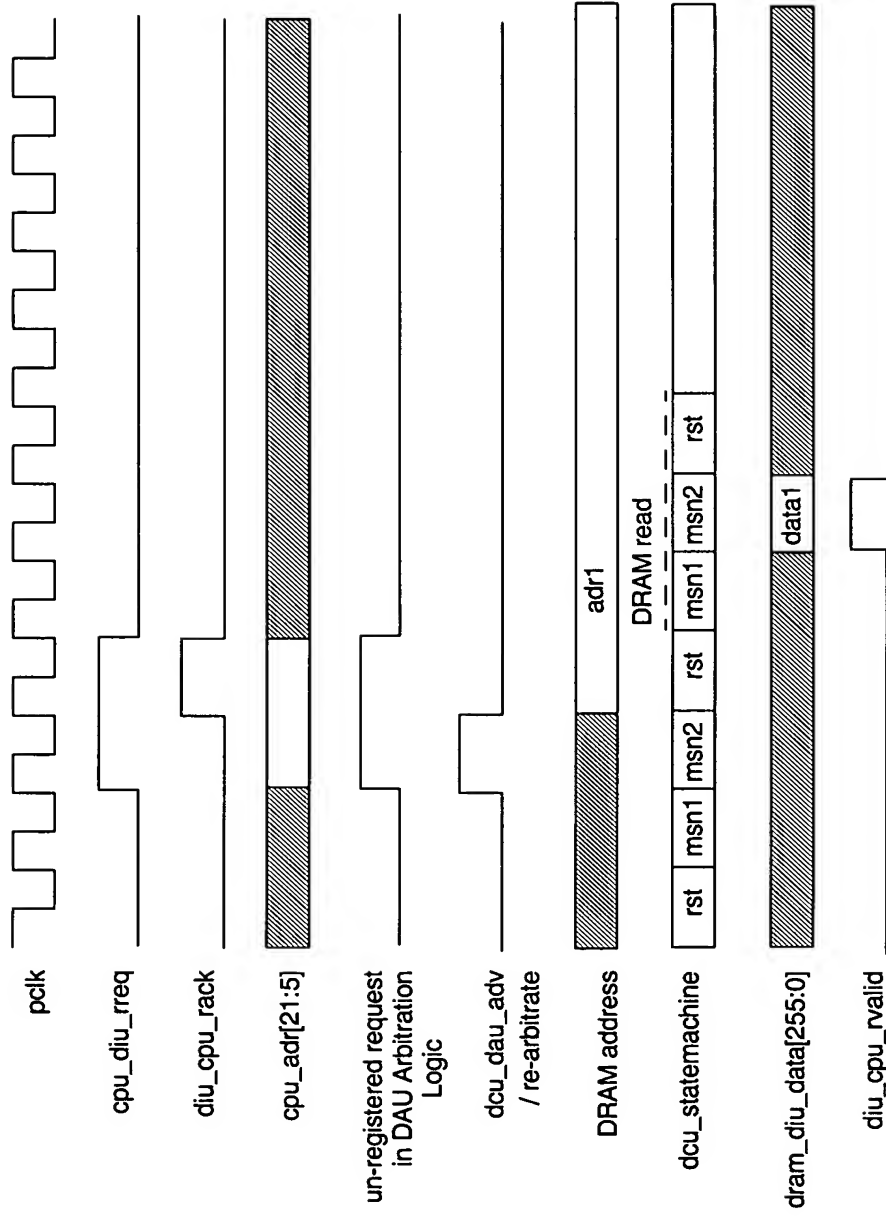


FIG. 110

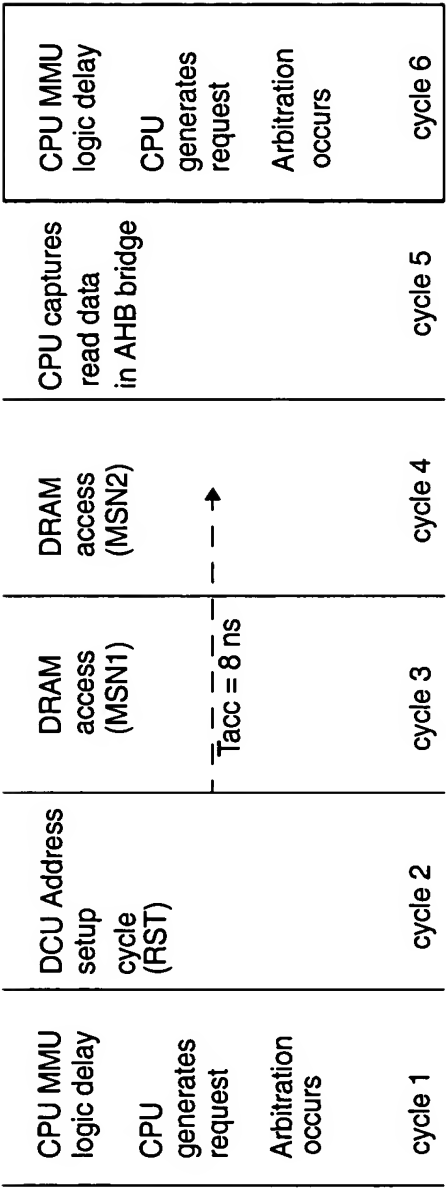


FIG. 111

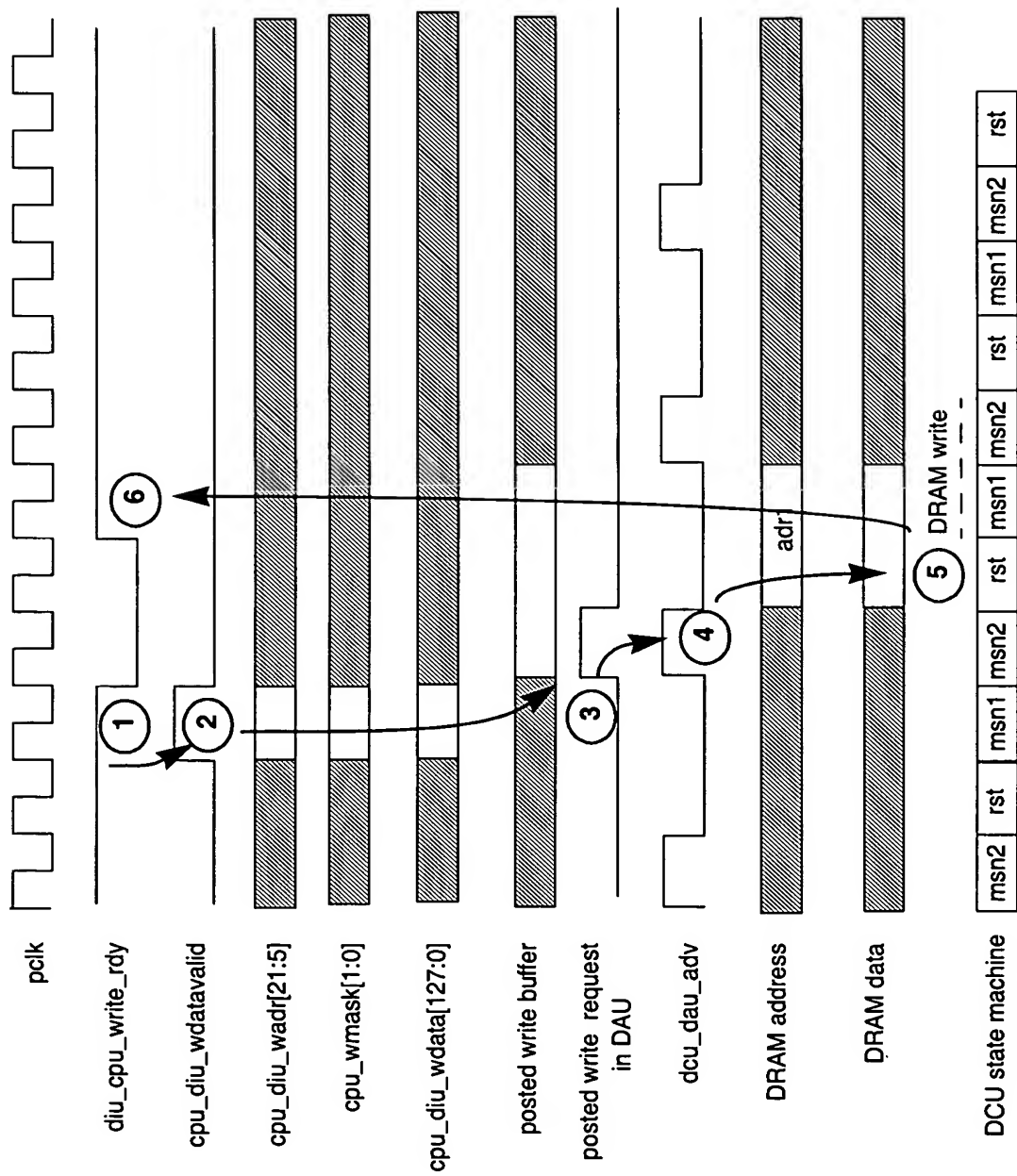


FIG. 112

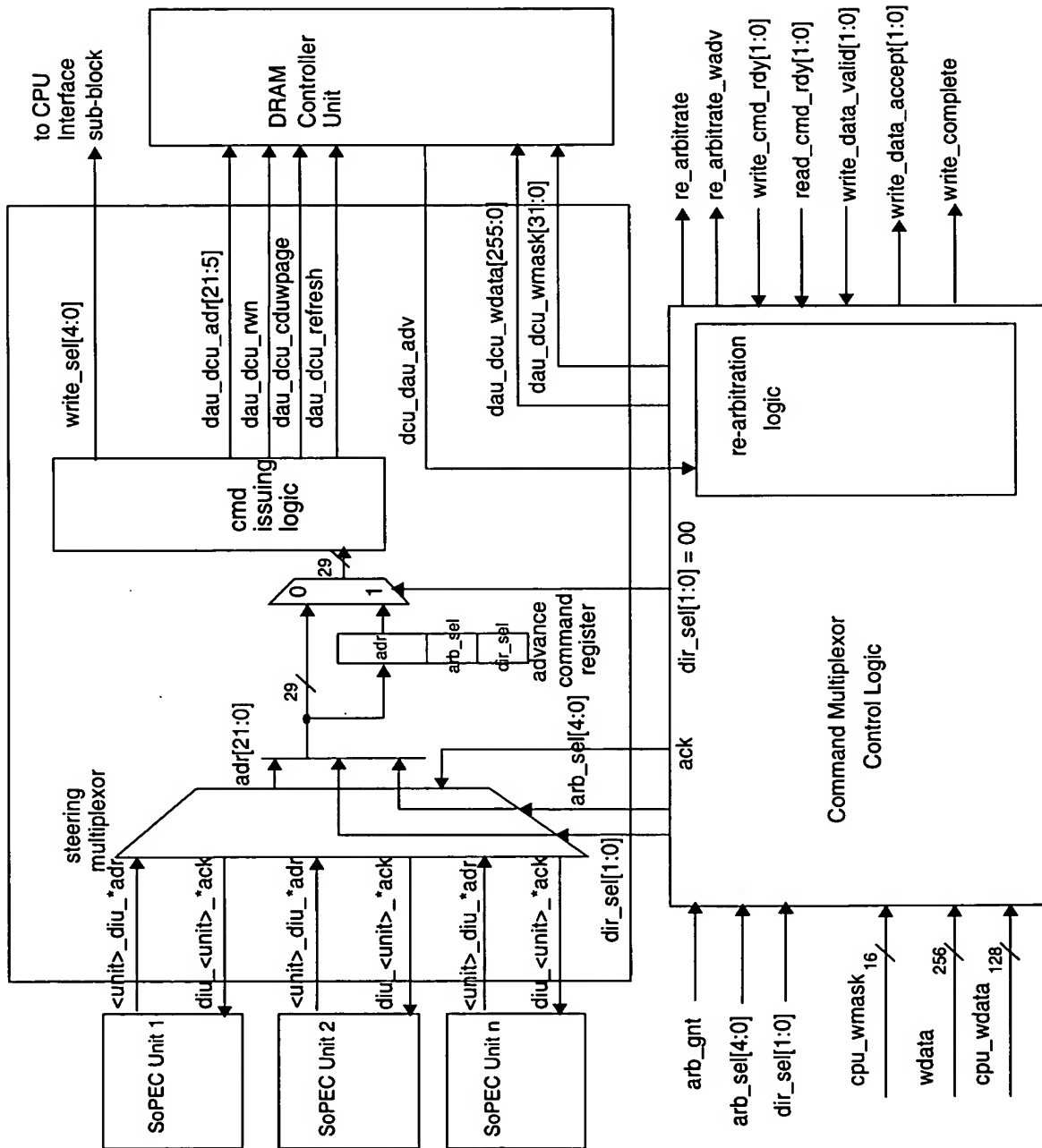


FIG. 115

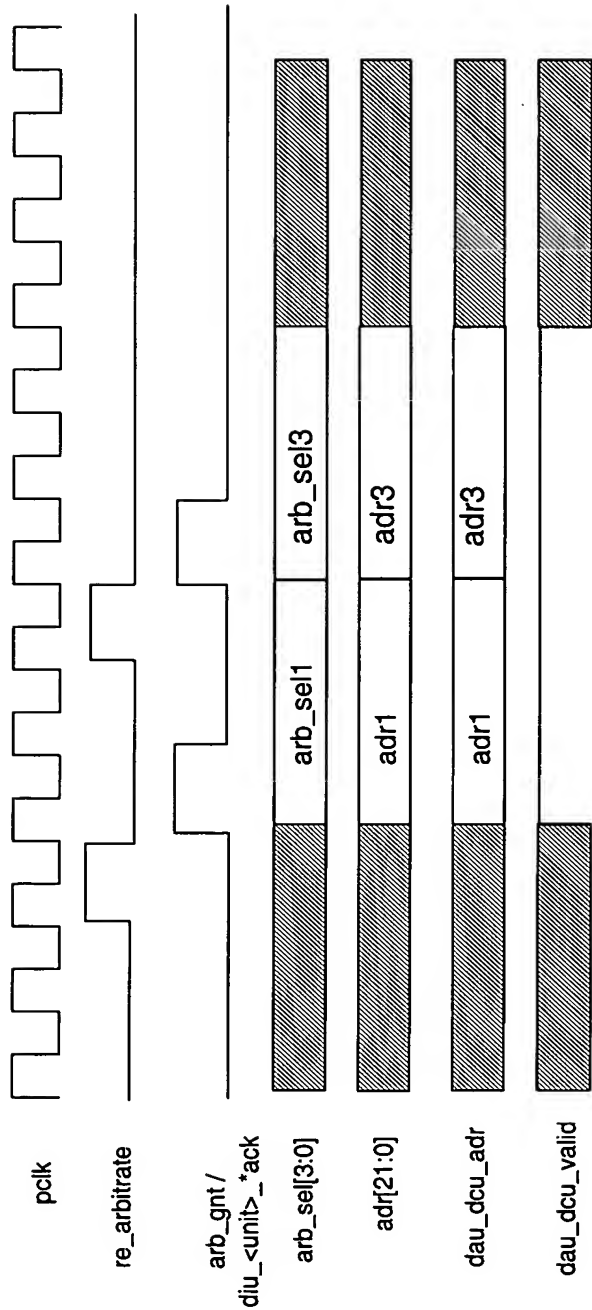


FIG. 116

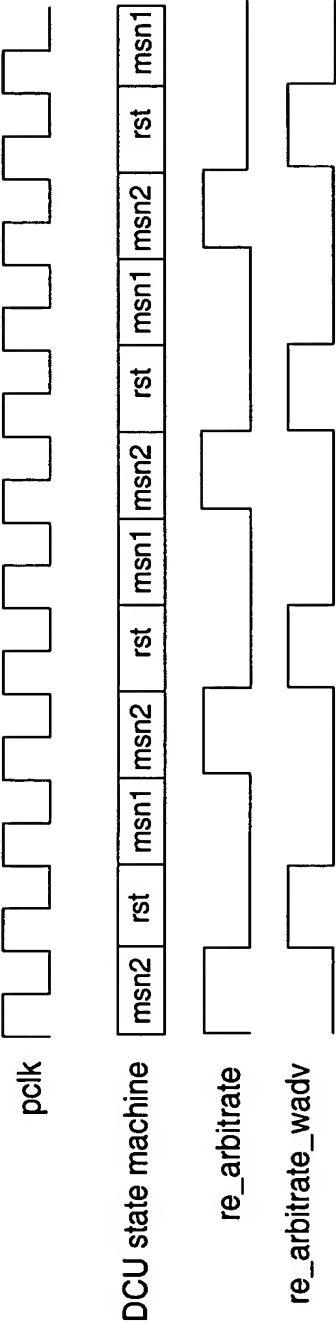


FIG. 117

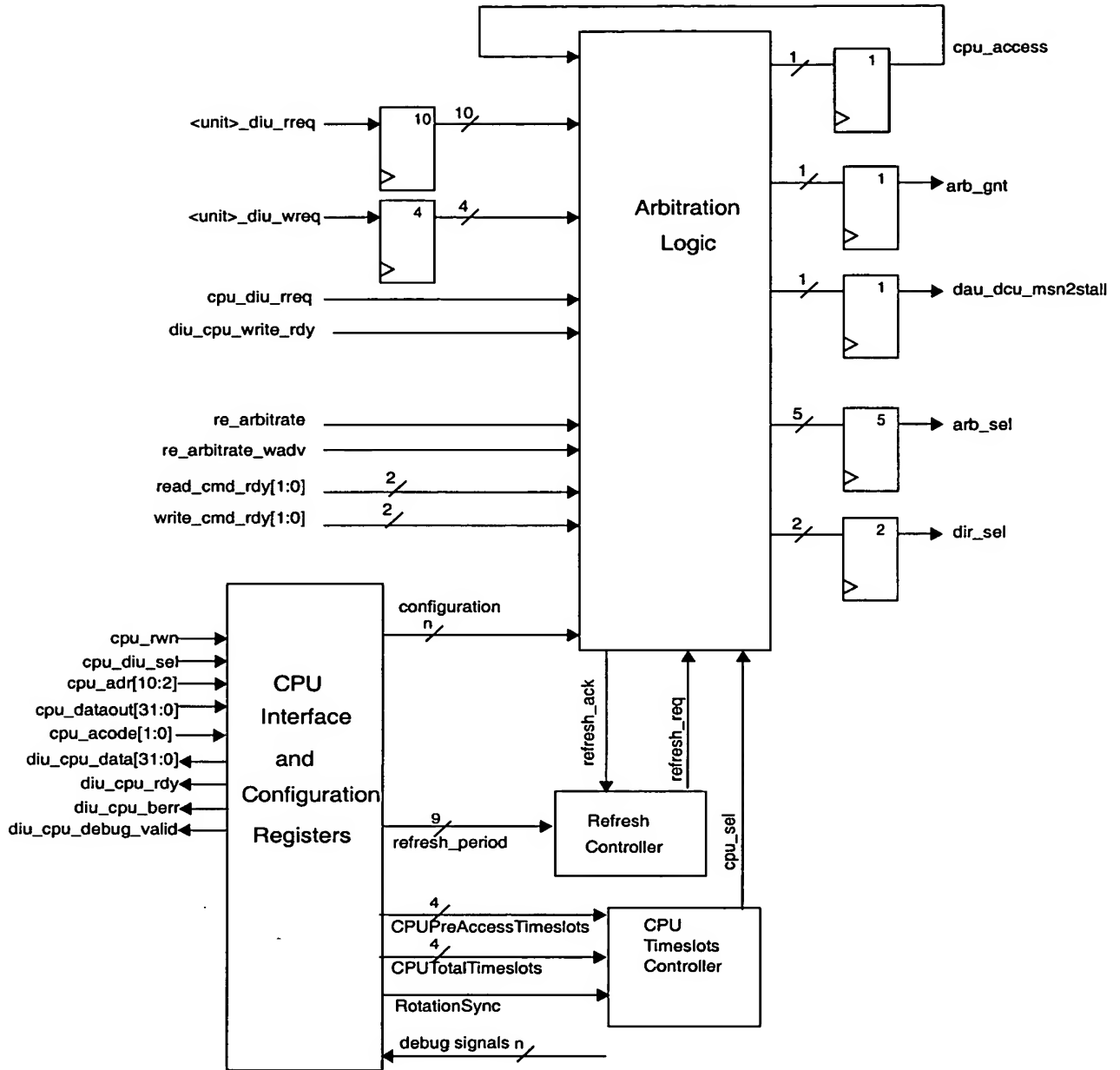


FIG. 118

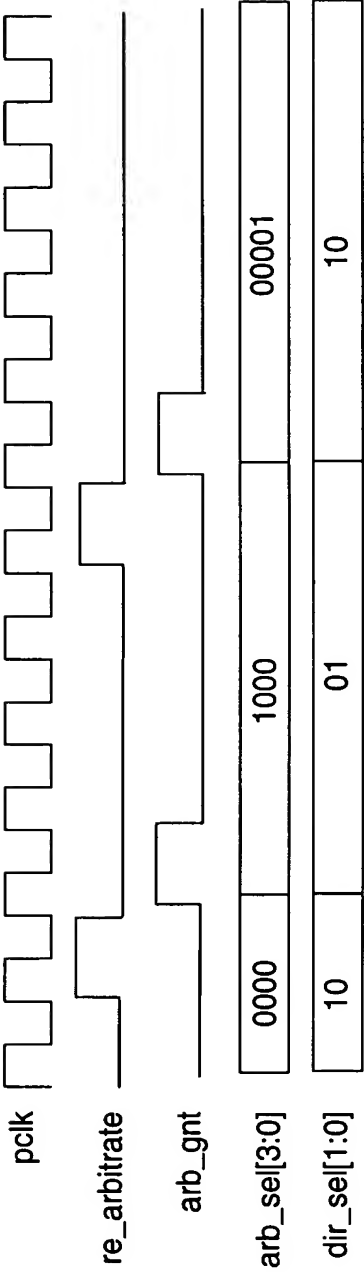


FIG. 119

106/331

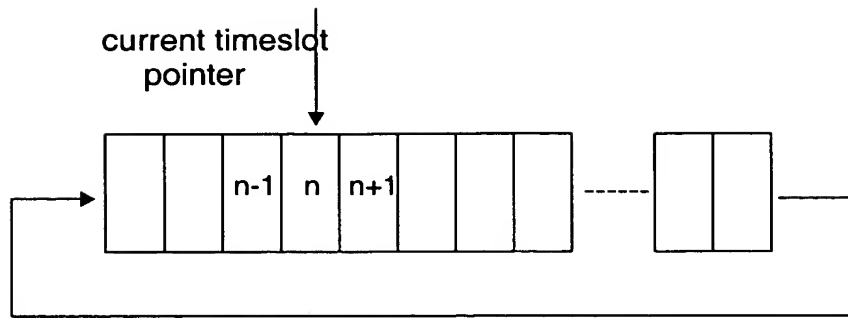


FIG. 121

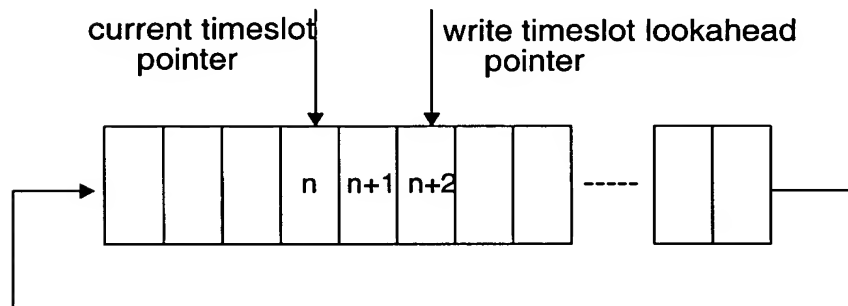


FIG. 122

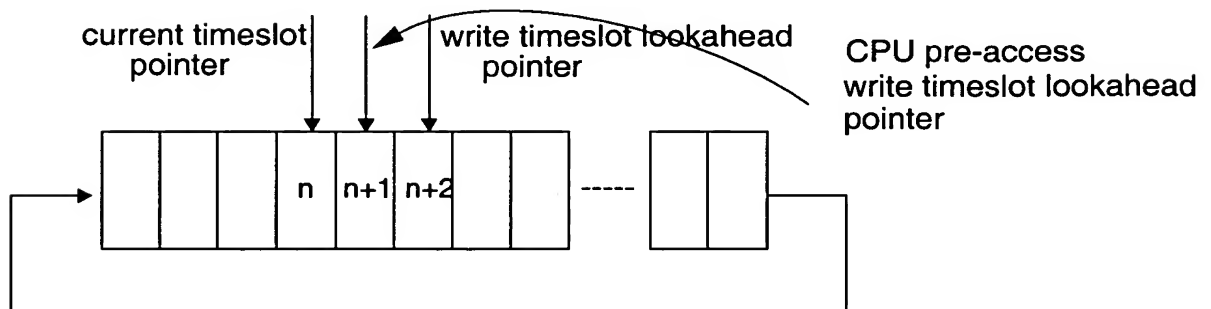


FIG. 123

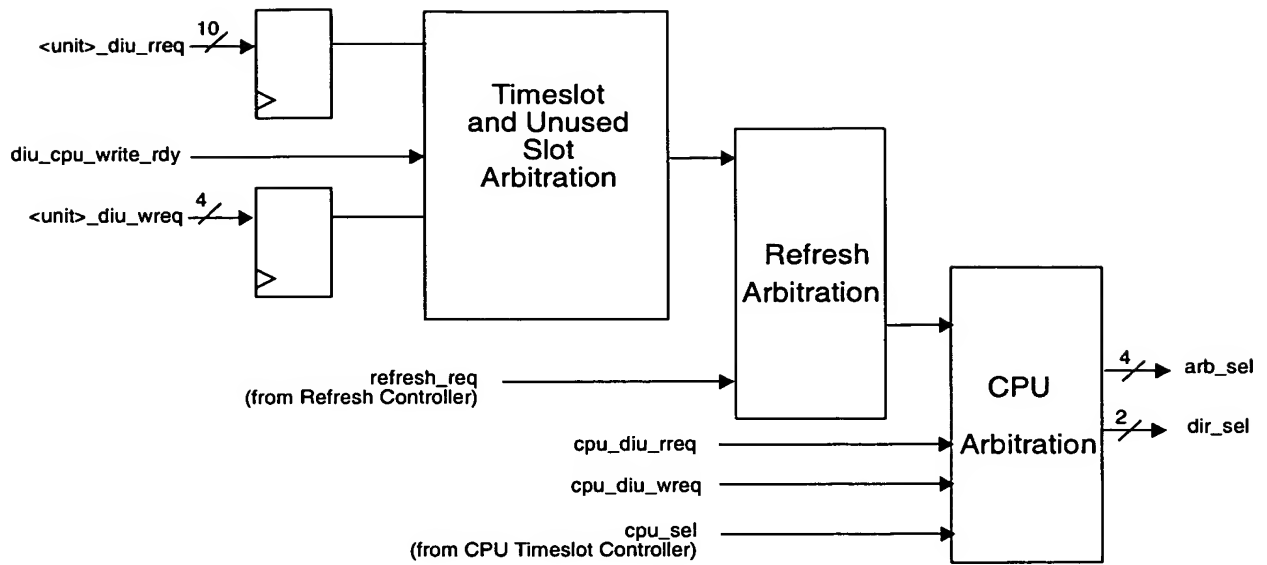


FIG. 124

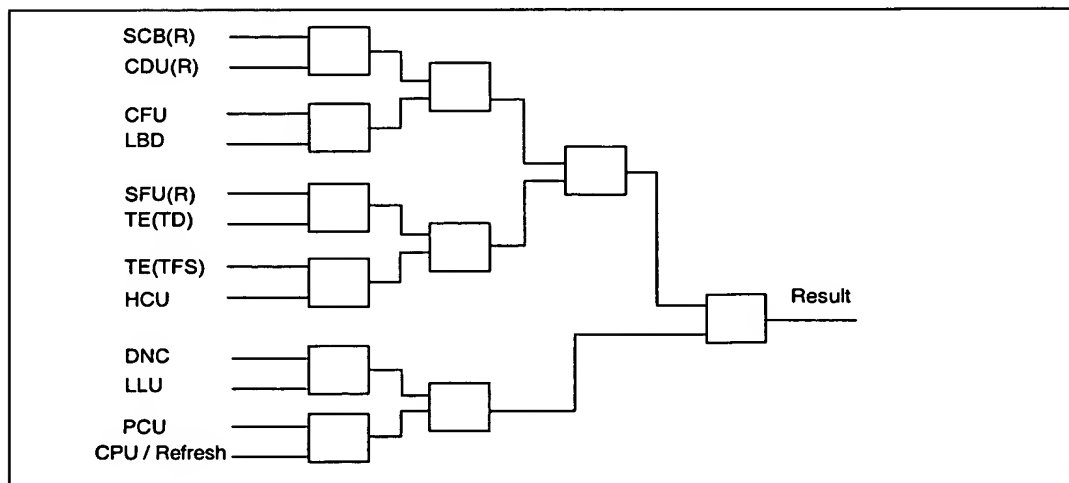


FIG. 125

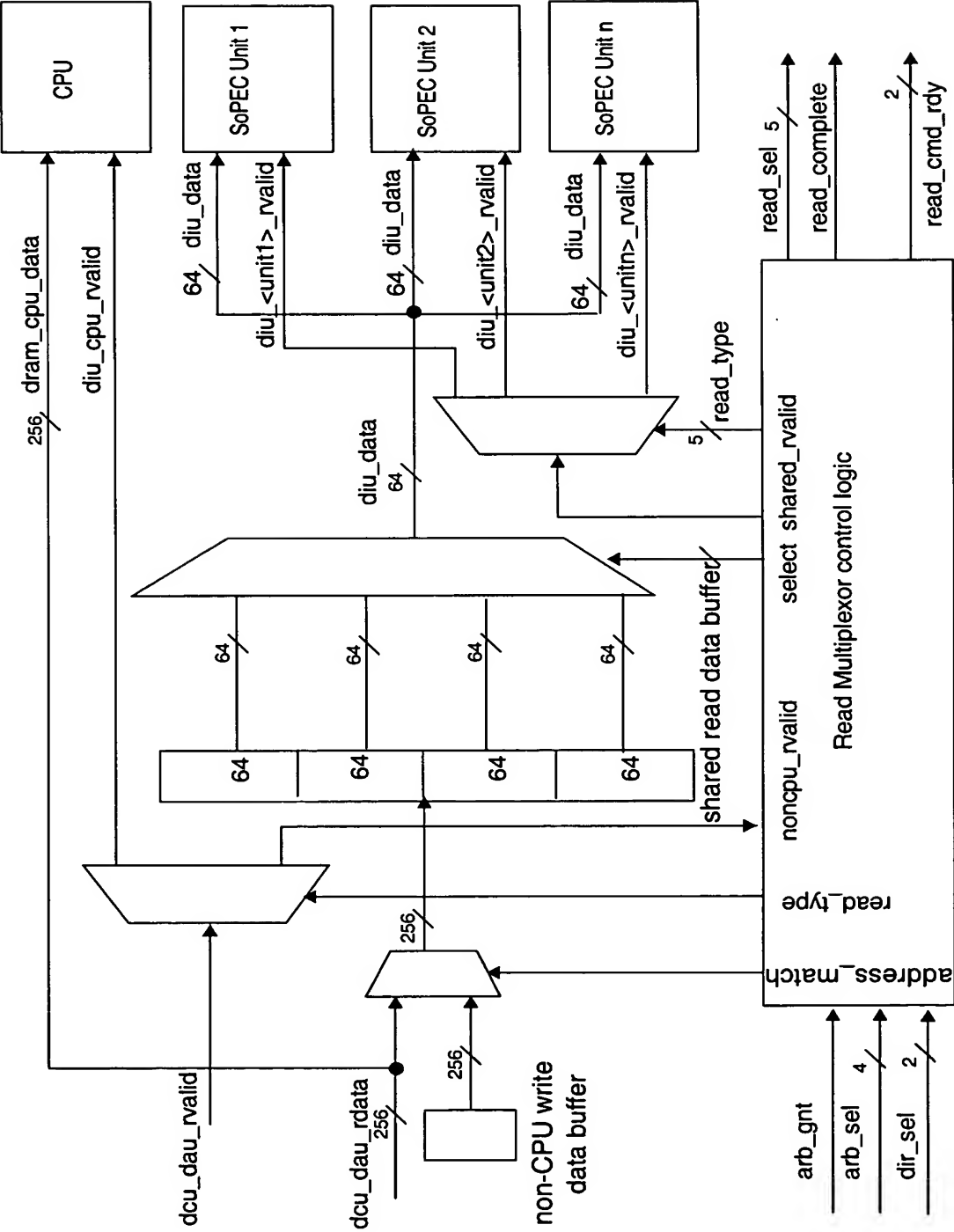


FIG. 126

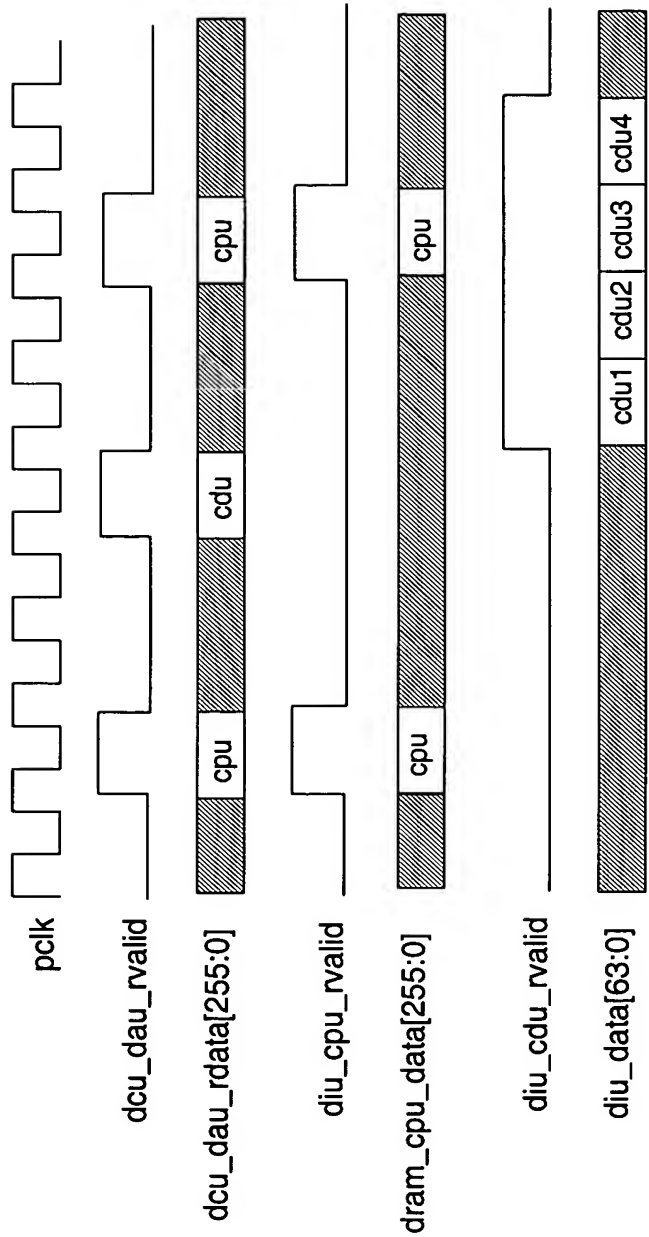


FIG. 127

110/331

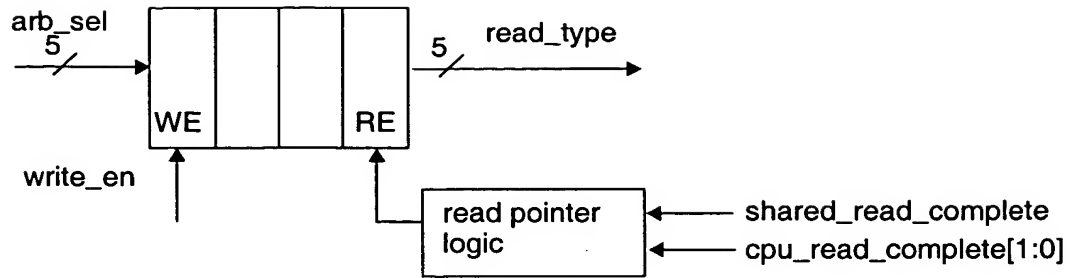


FIG. 128

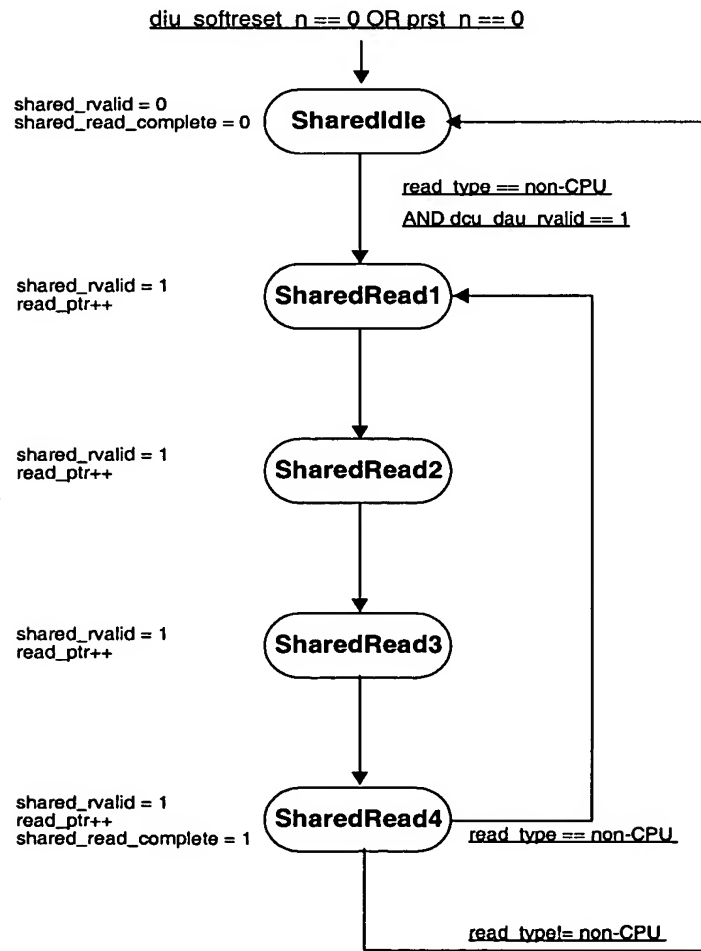


FIG. 129

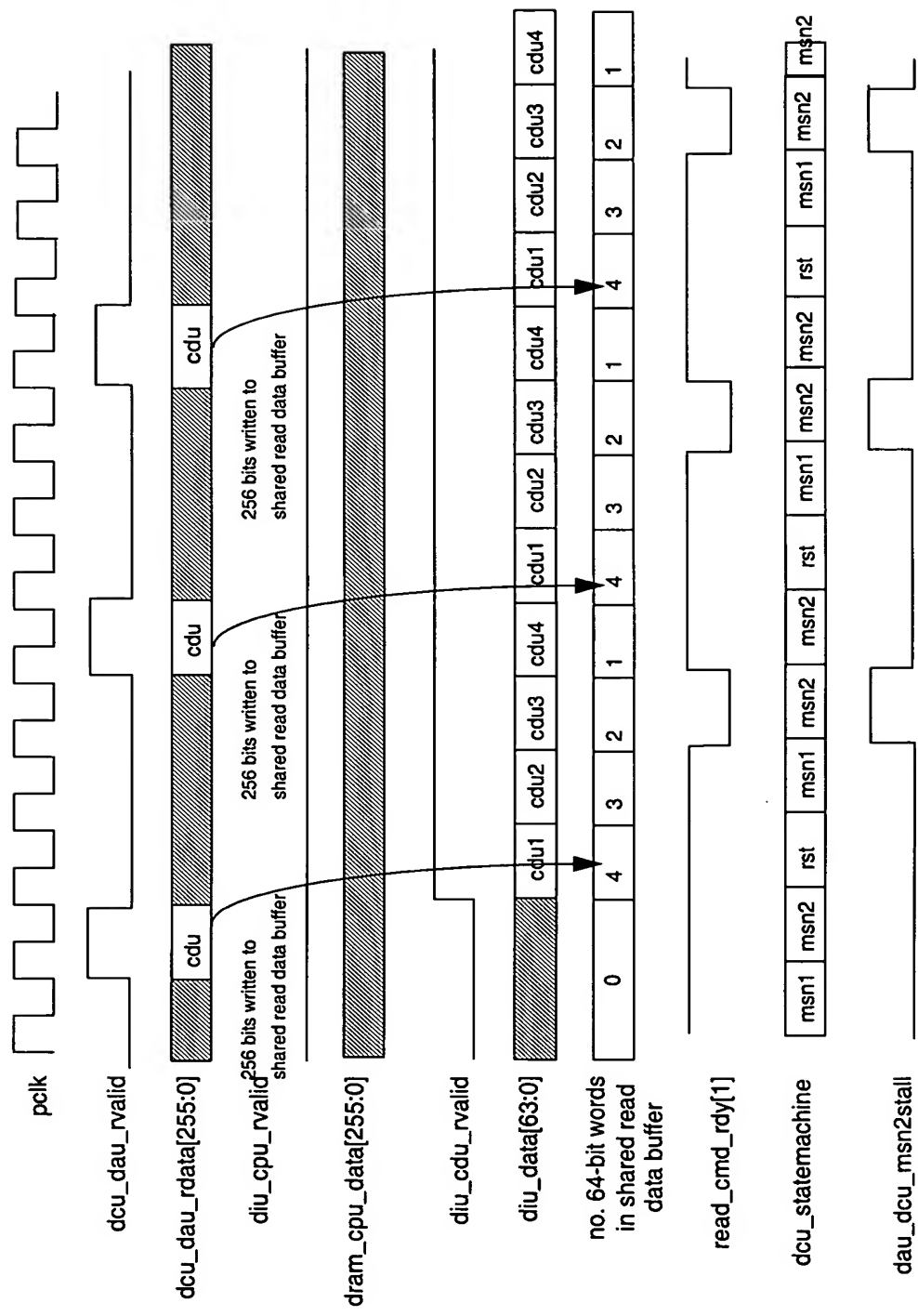


FIG. 130

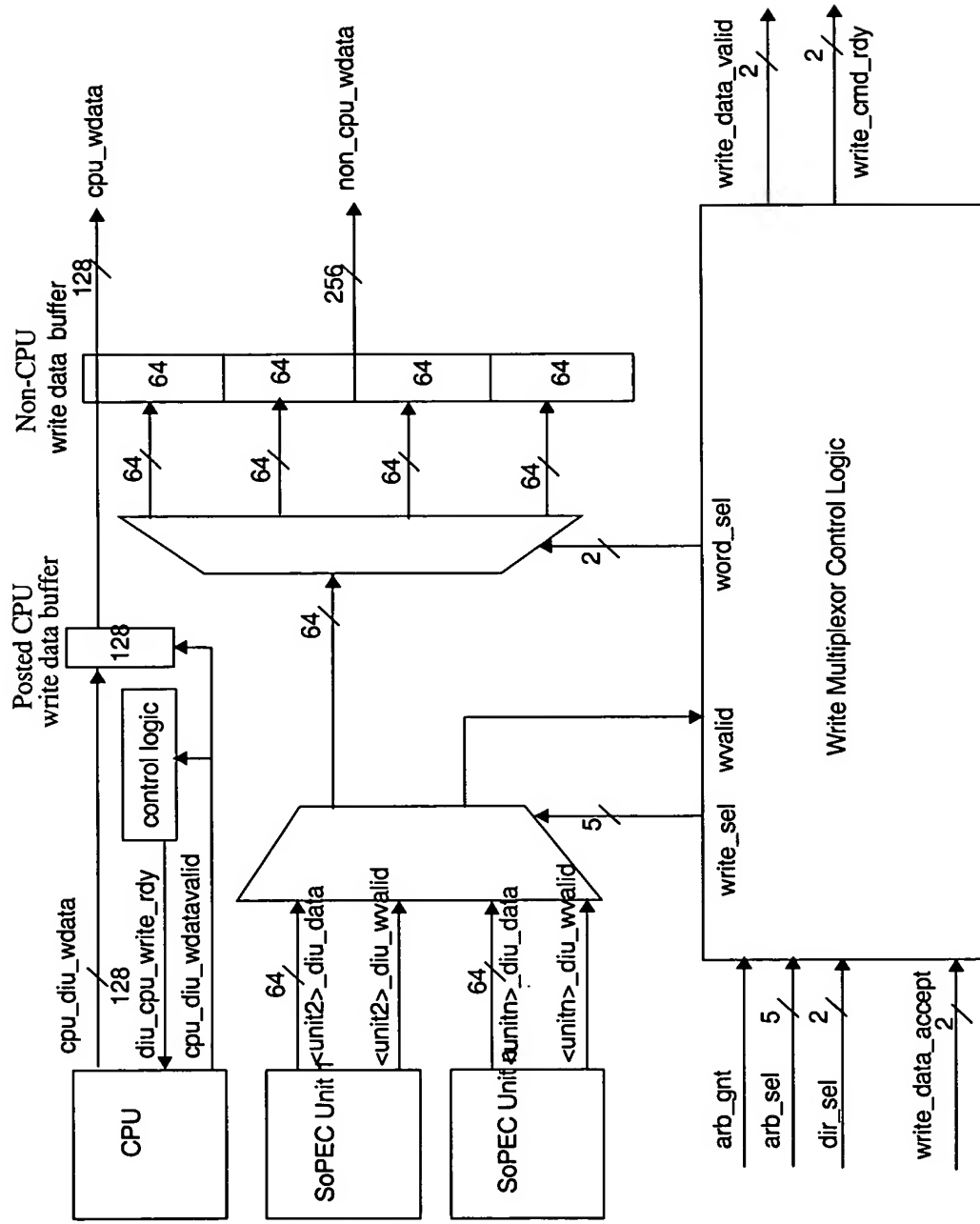


FIG. 131

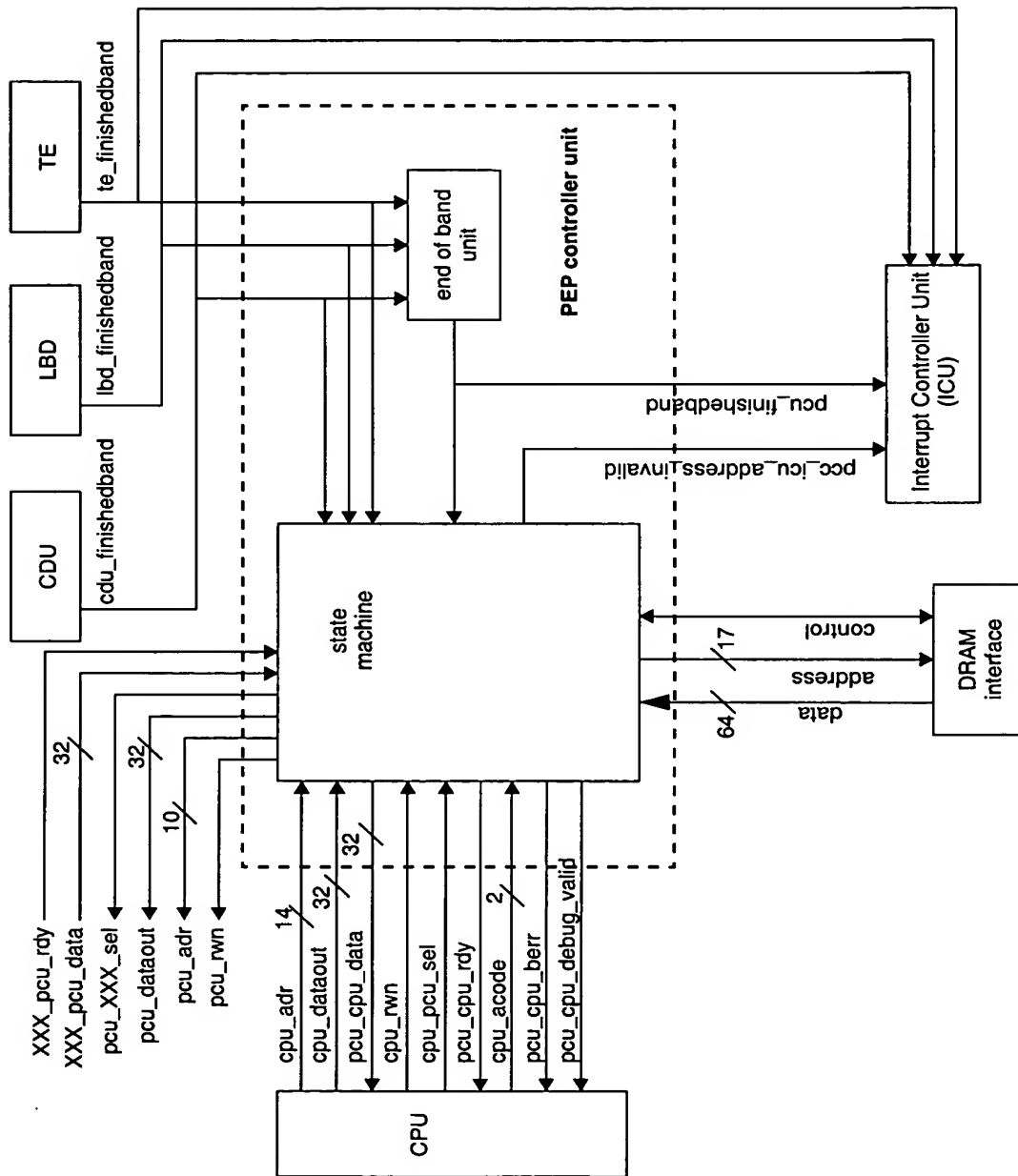


FIG. 132

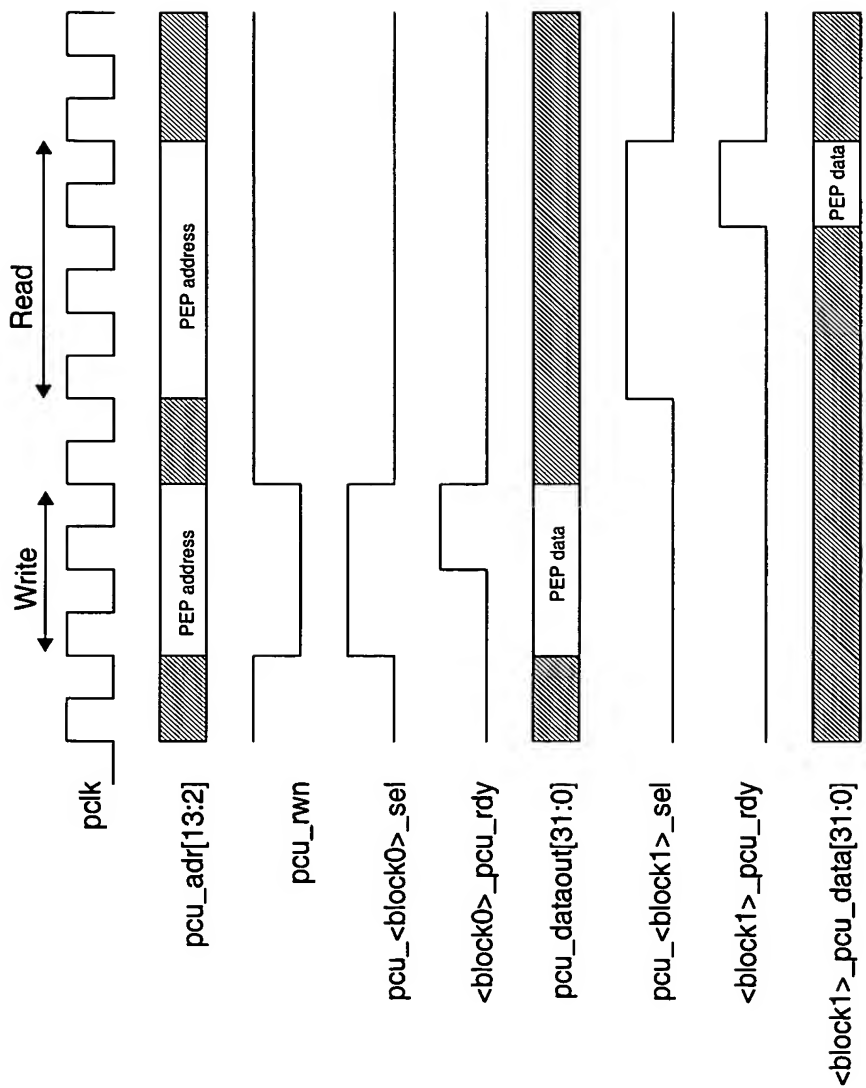


FIG. 133

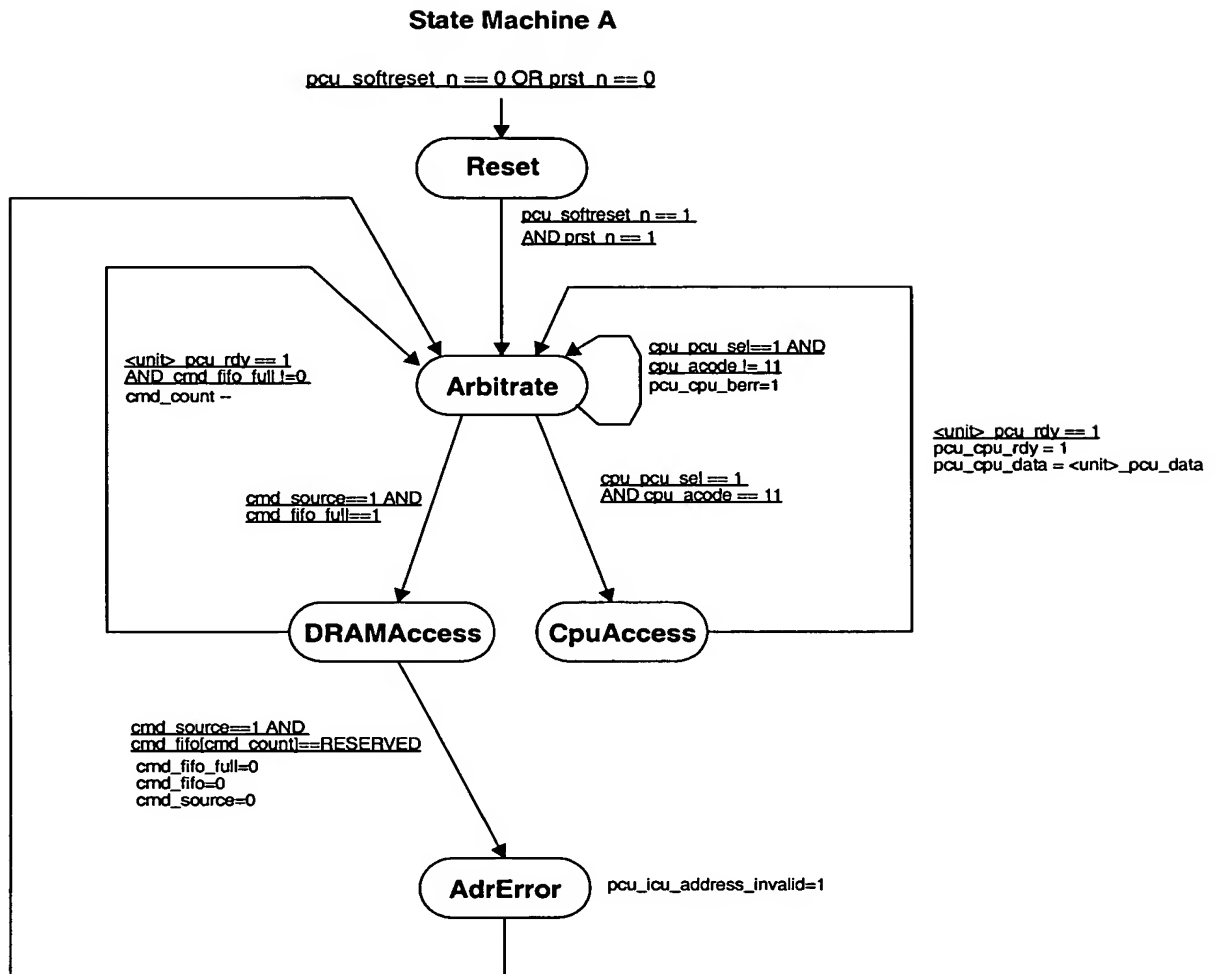


FIG. 134

State Machine B

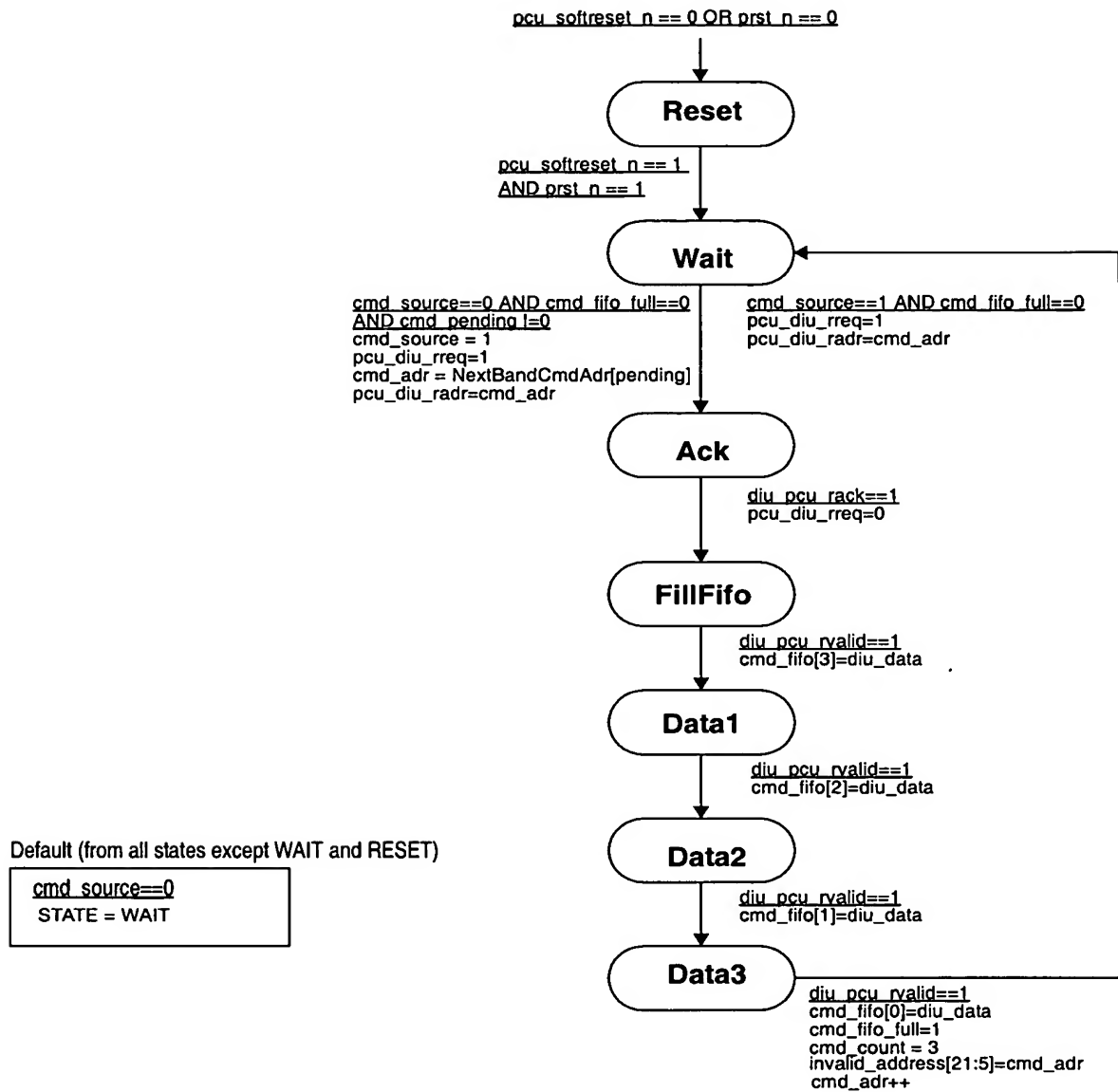


FIG. 135

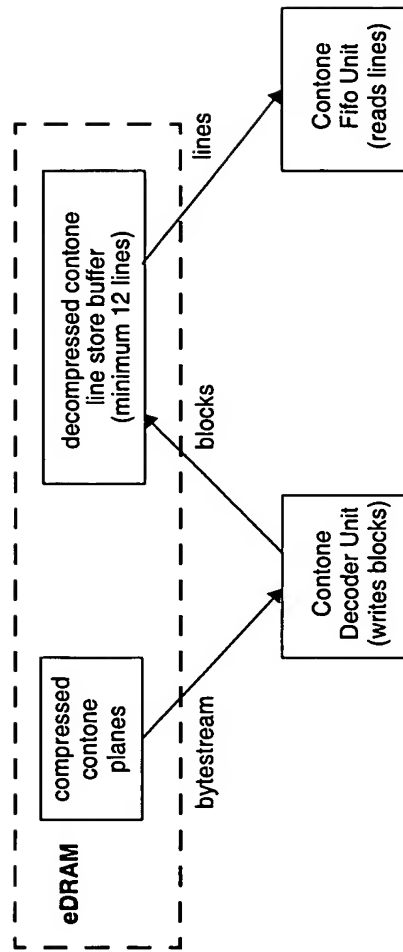


FIG. 136

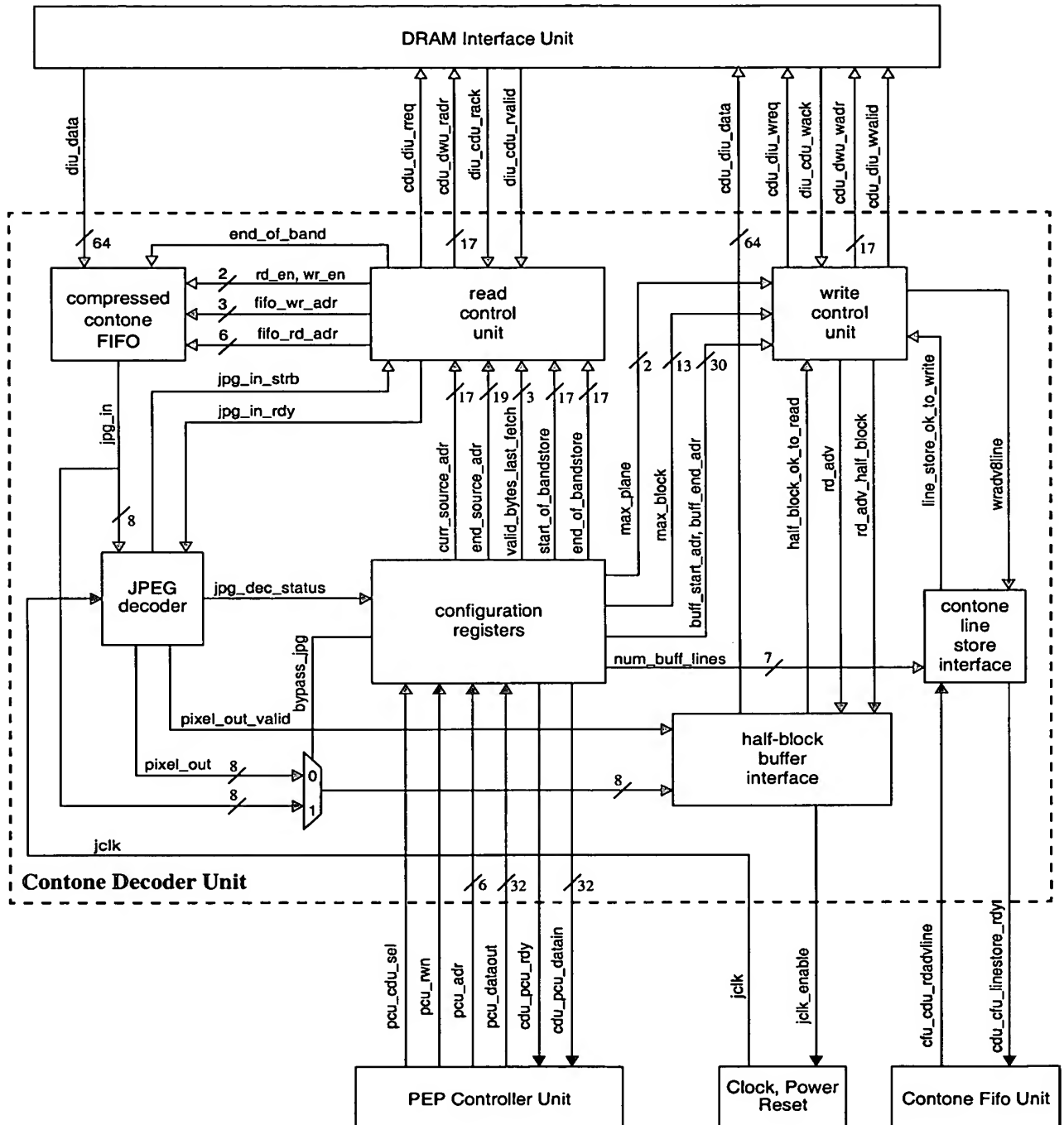


FIG. 137

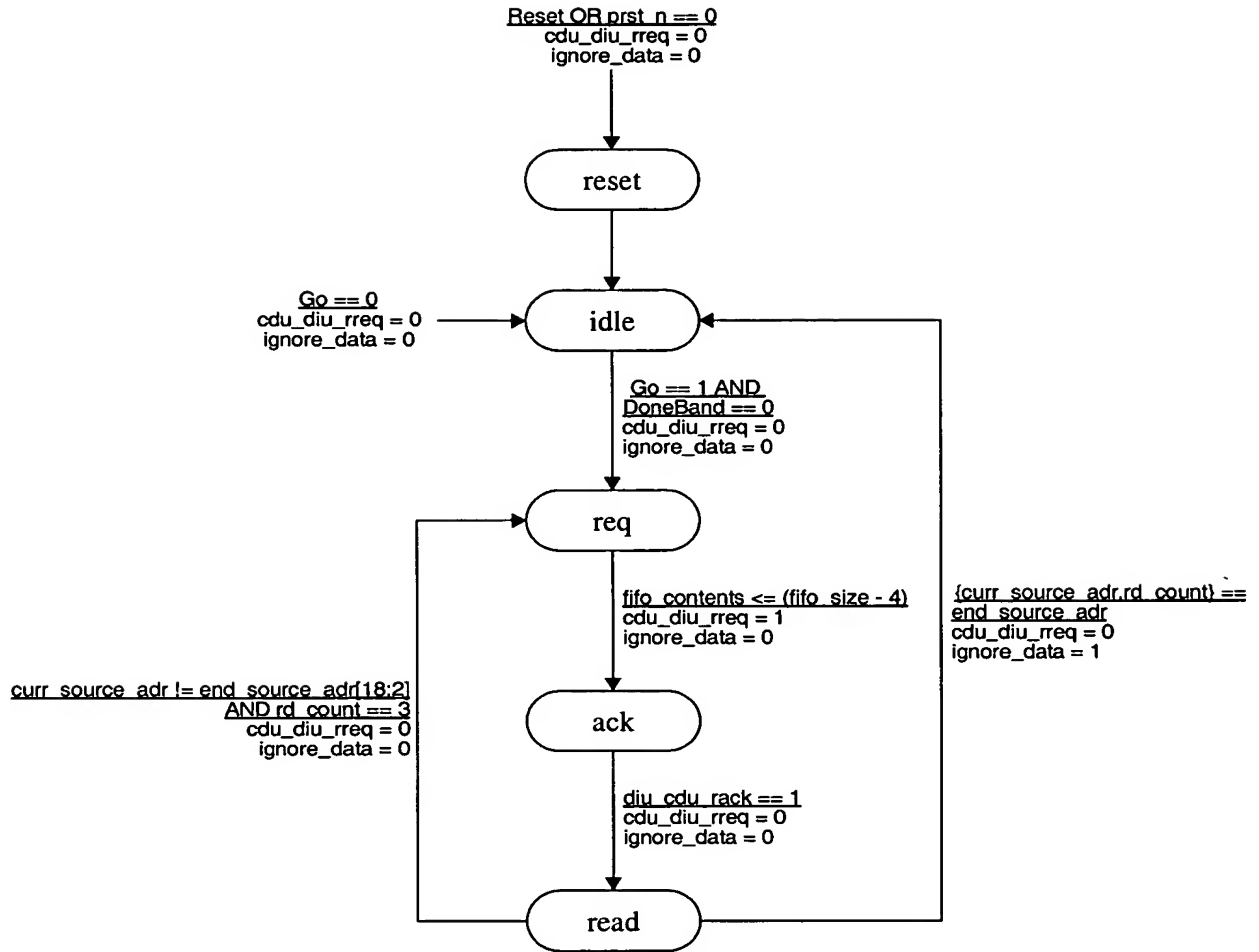


FIG. 138

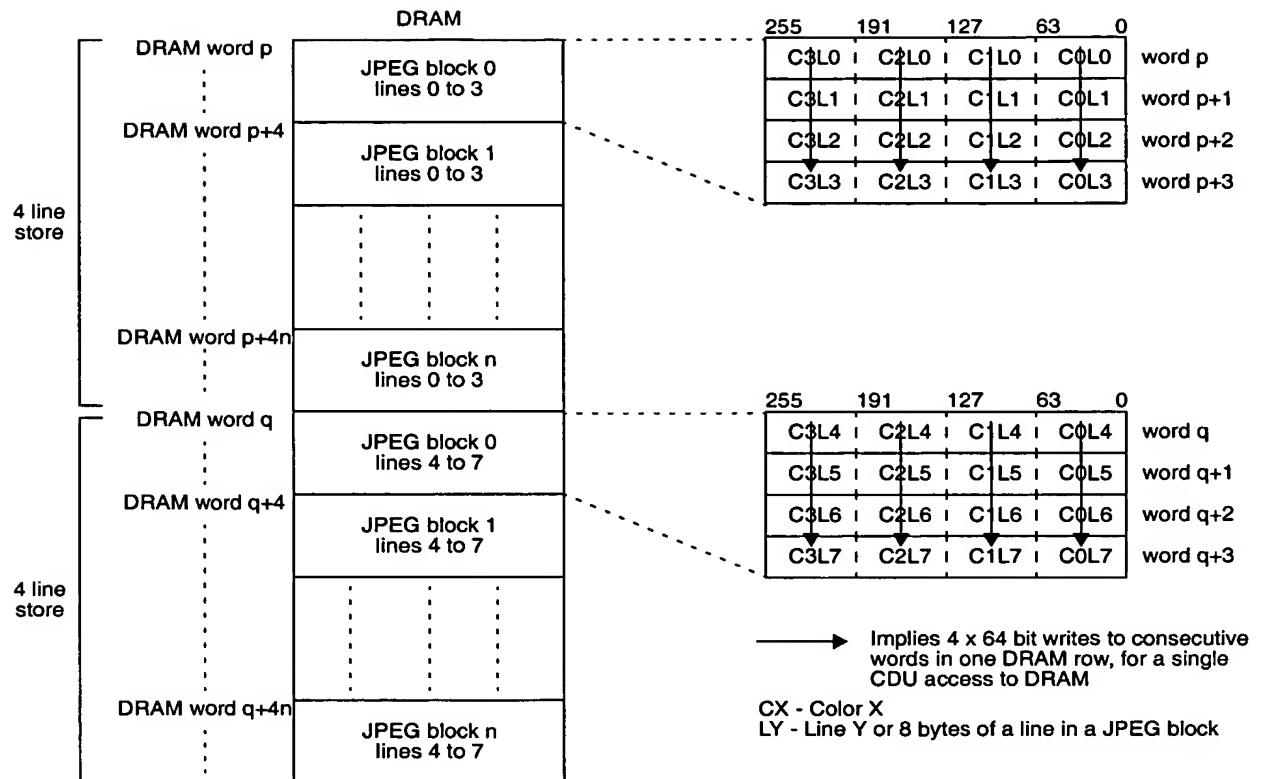


FIG. 139

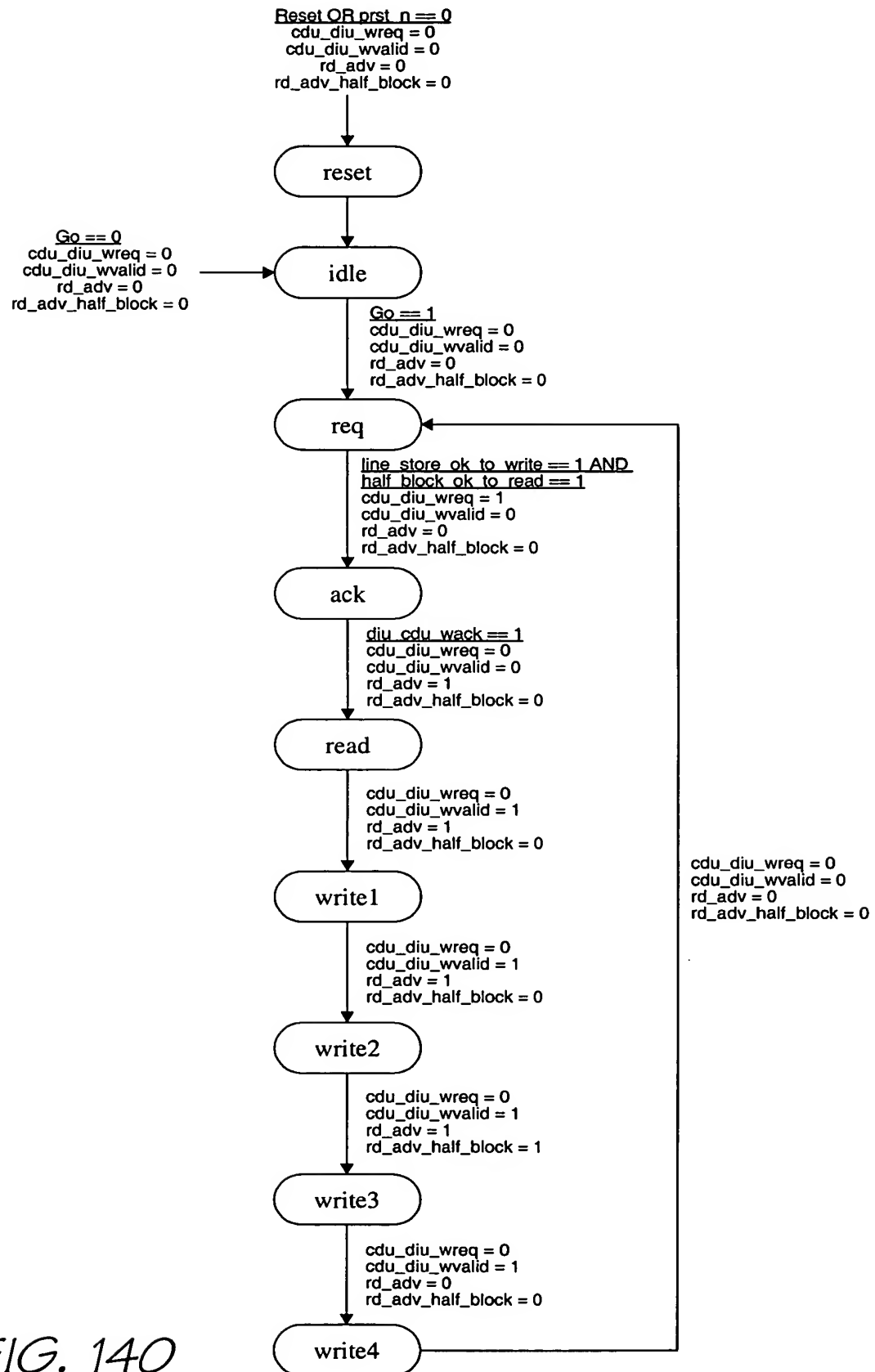
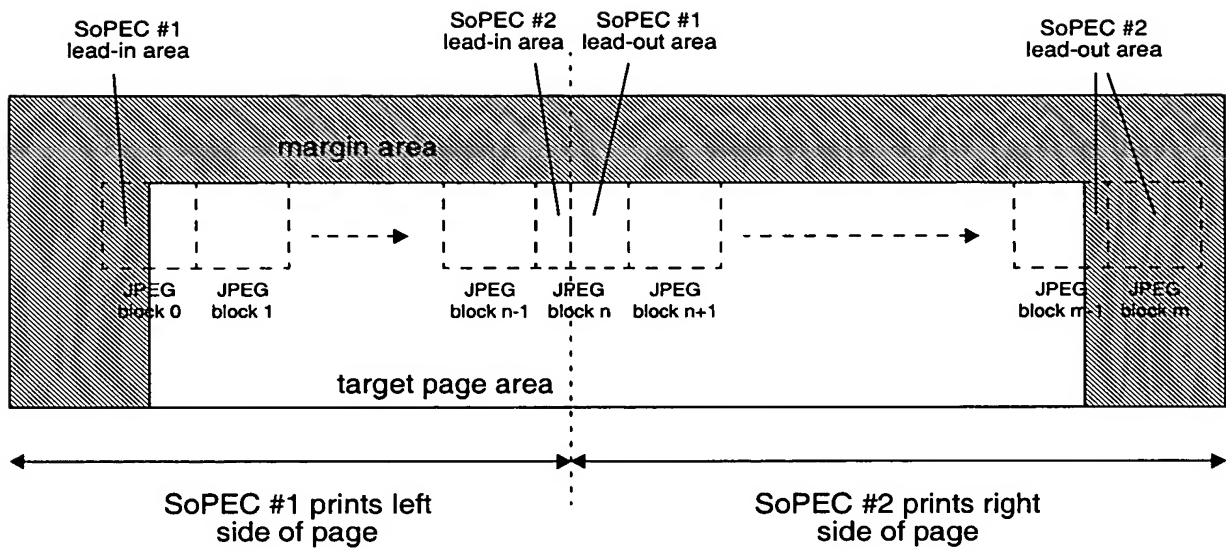


FIG. 140

*FIG. 141*

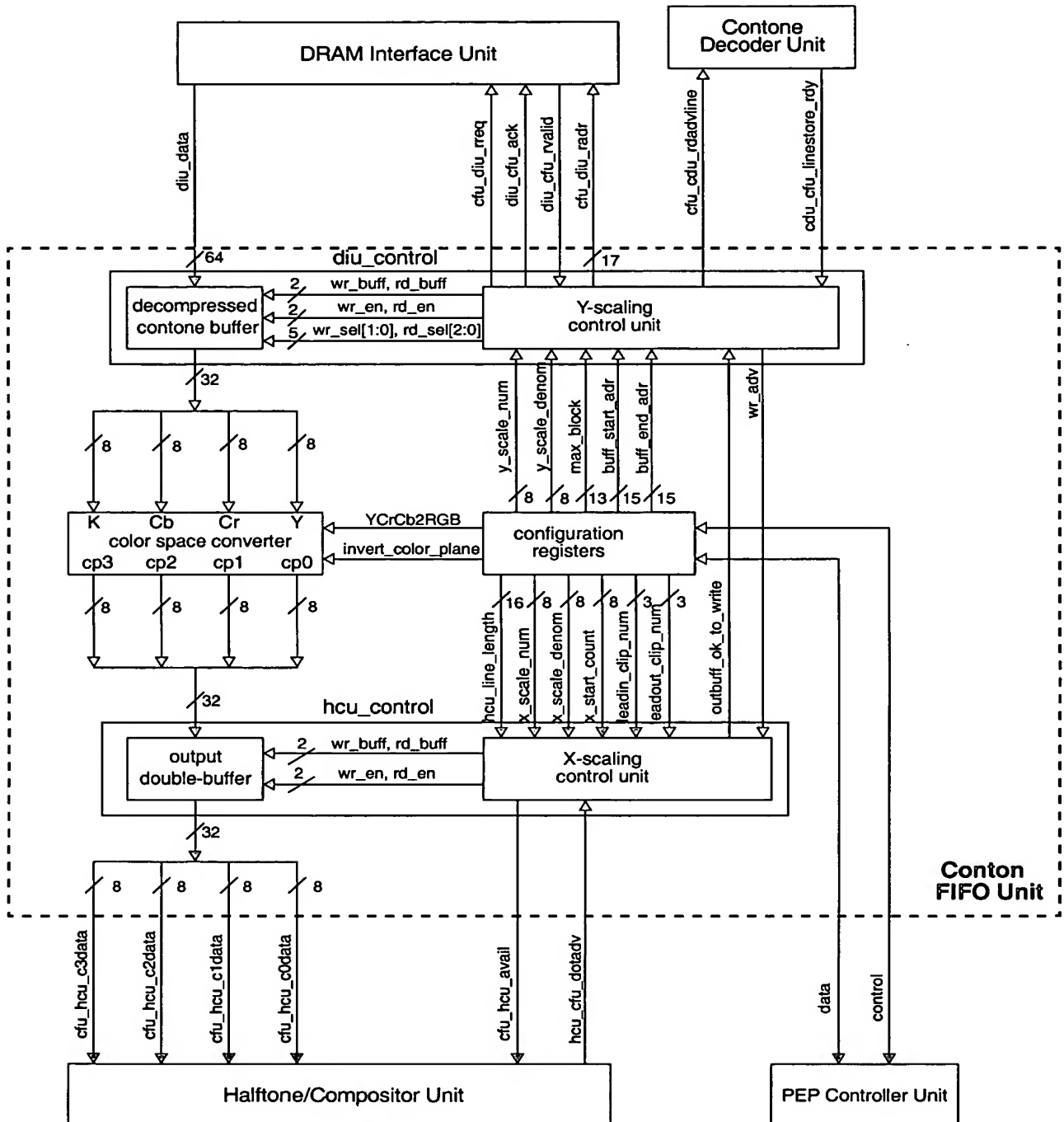


FIG. 142

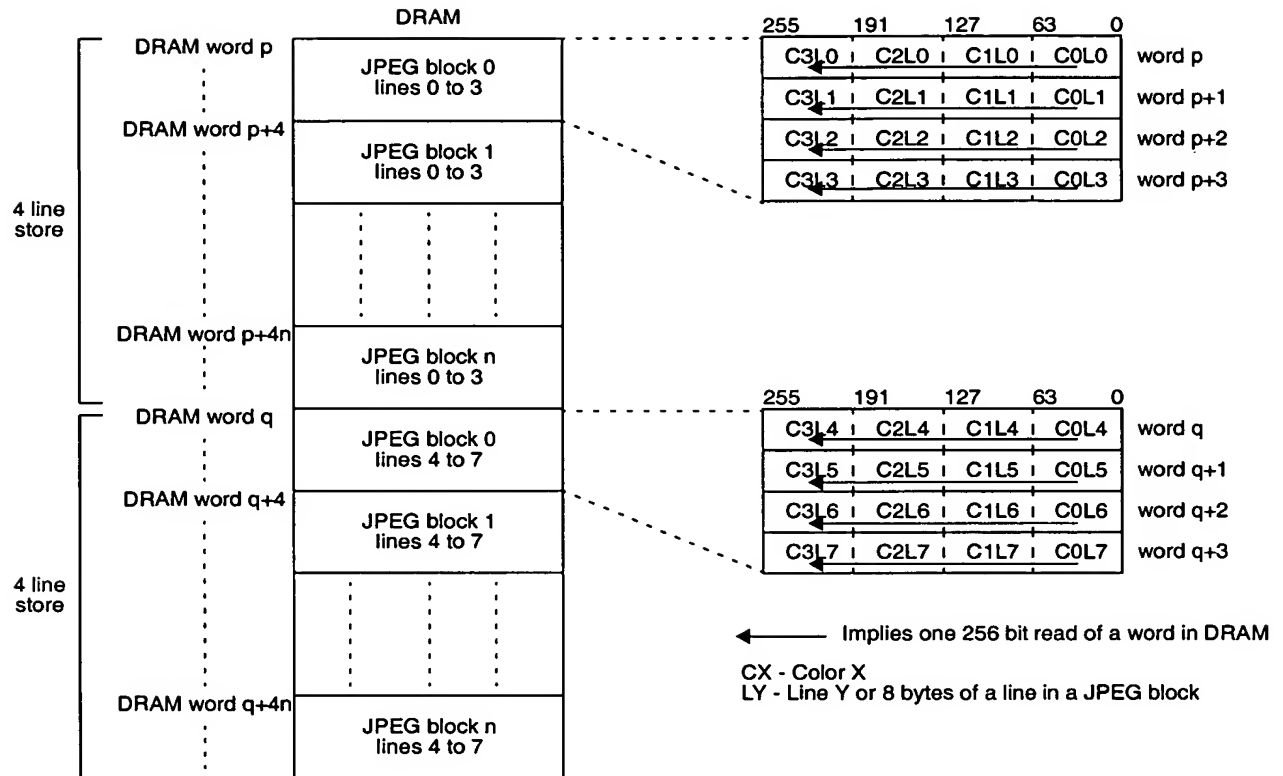


FIG. 143

125/331

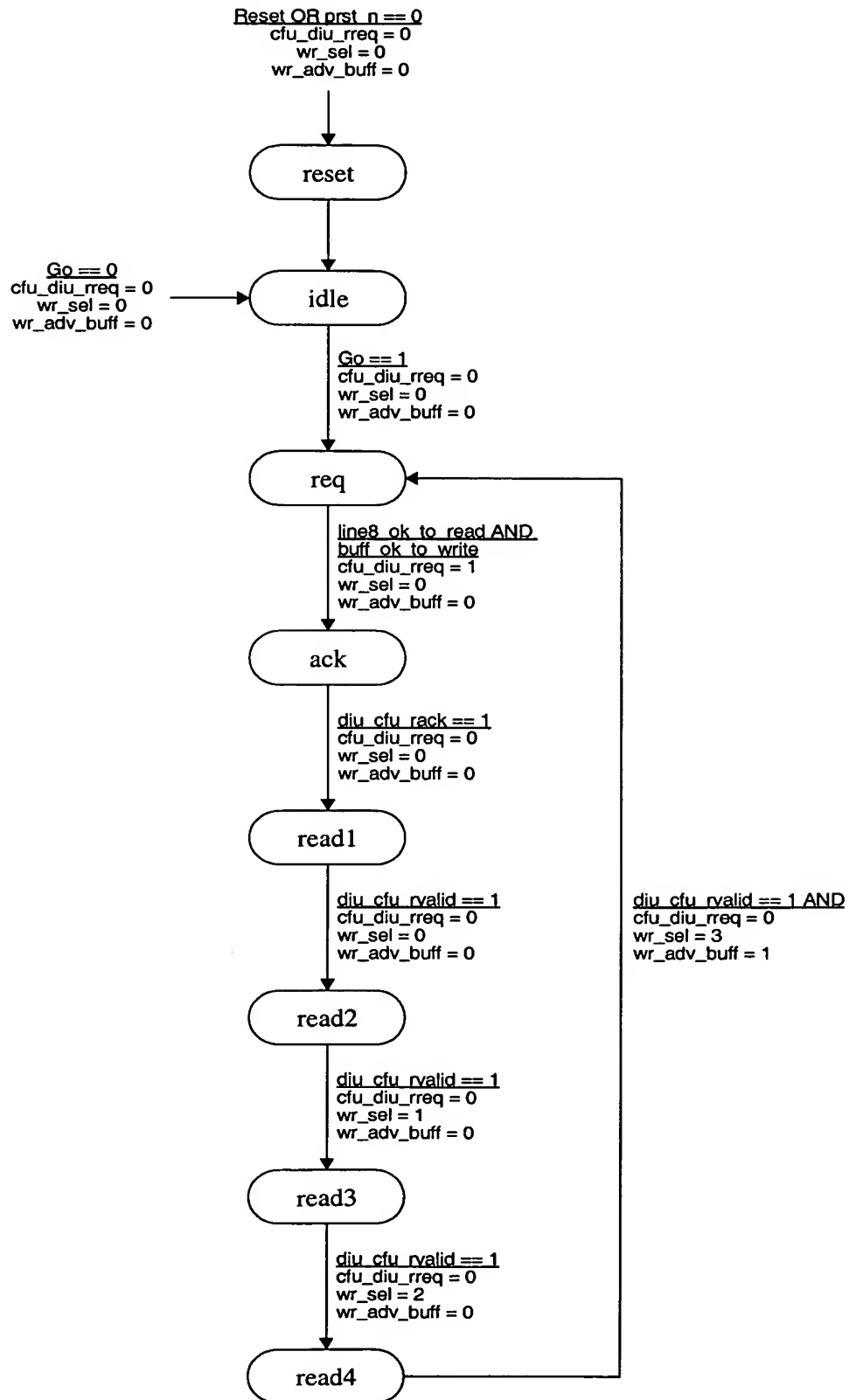


FIG. 144

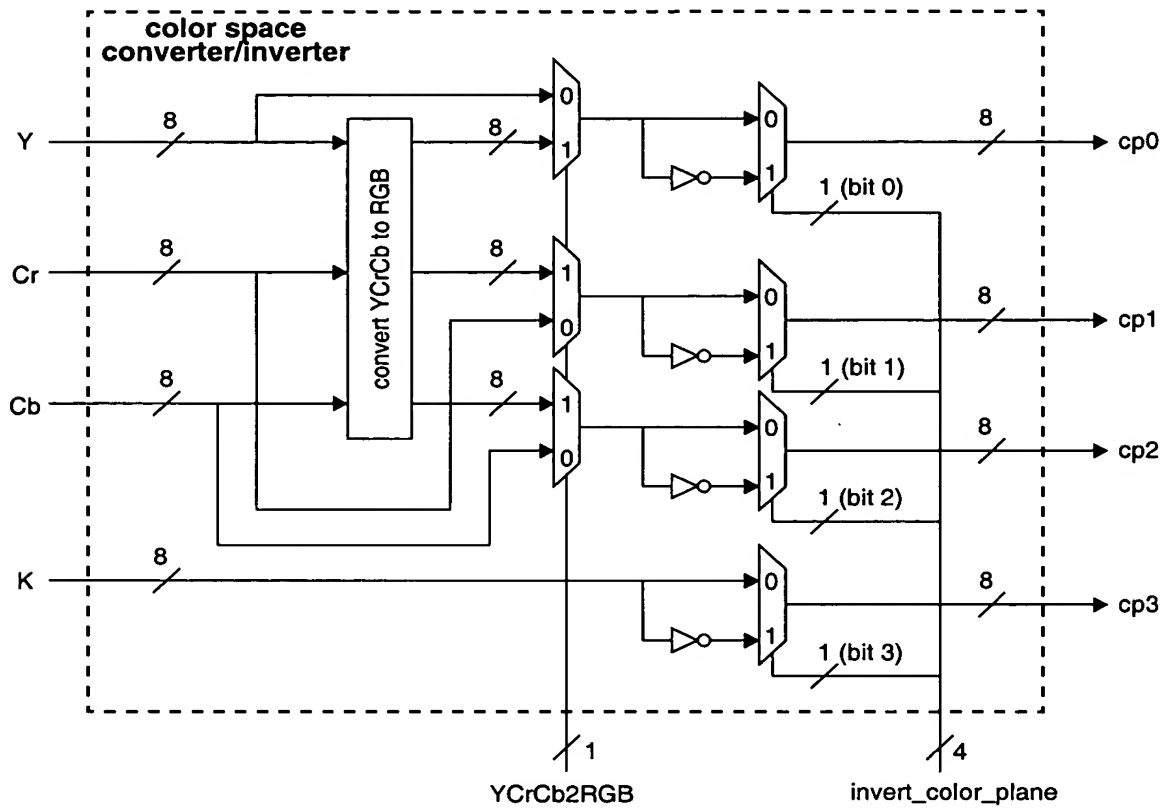


FIG. 145

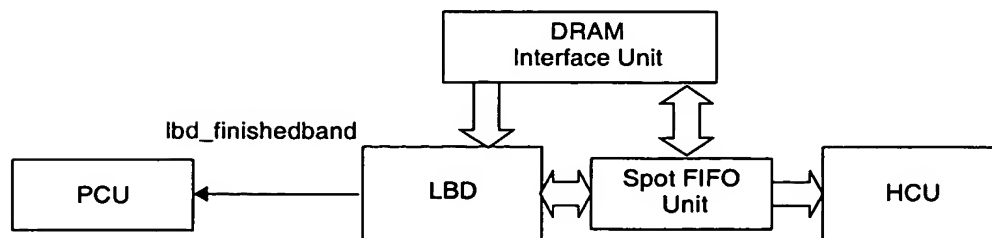


FIG. 146

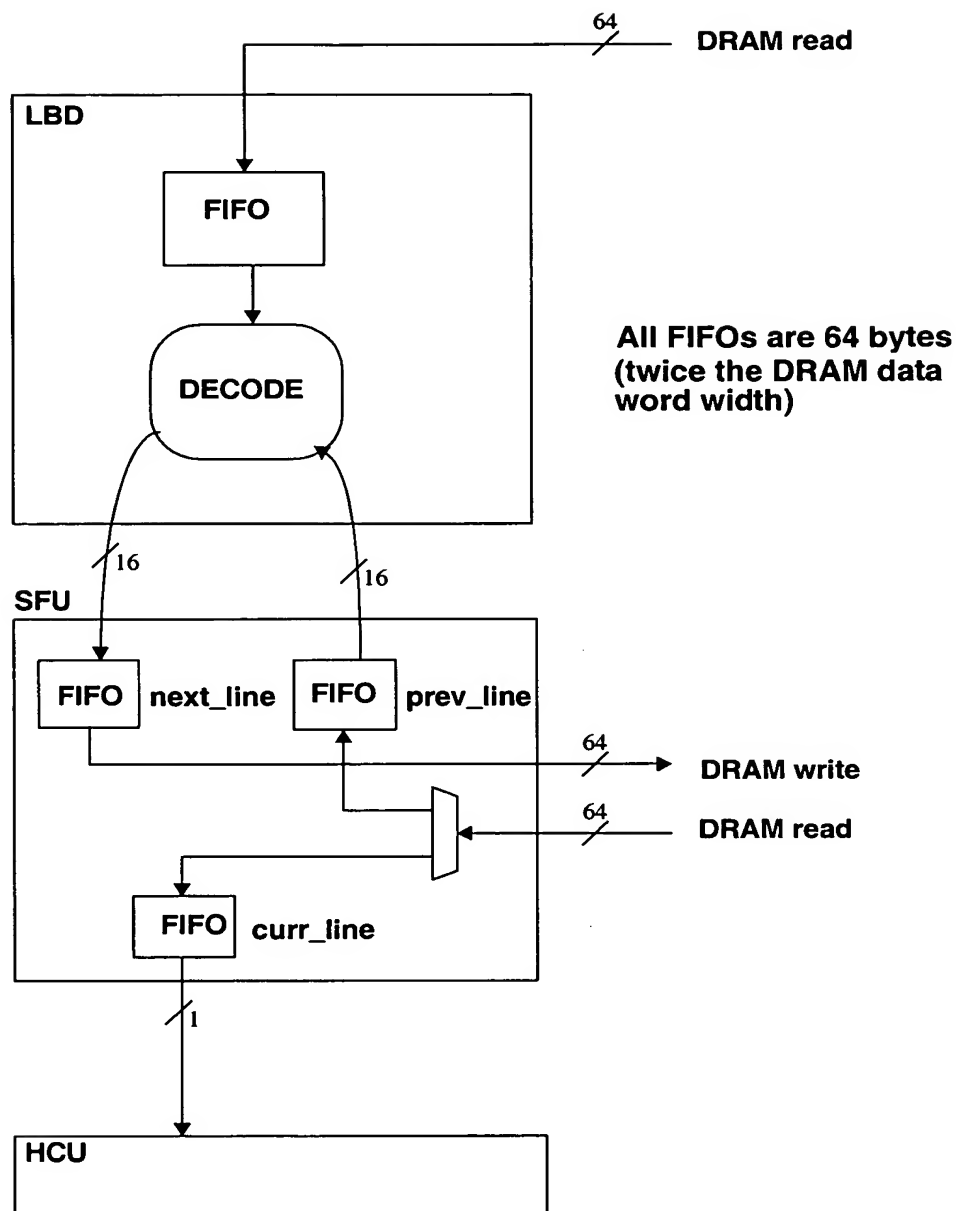


FIG. 147

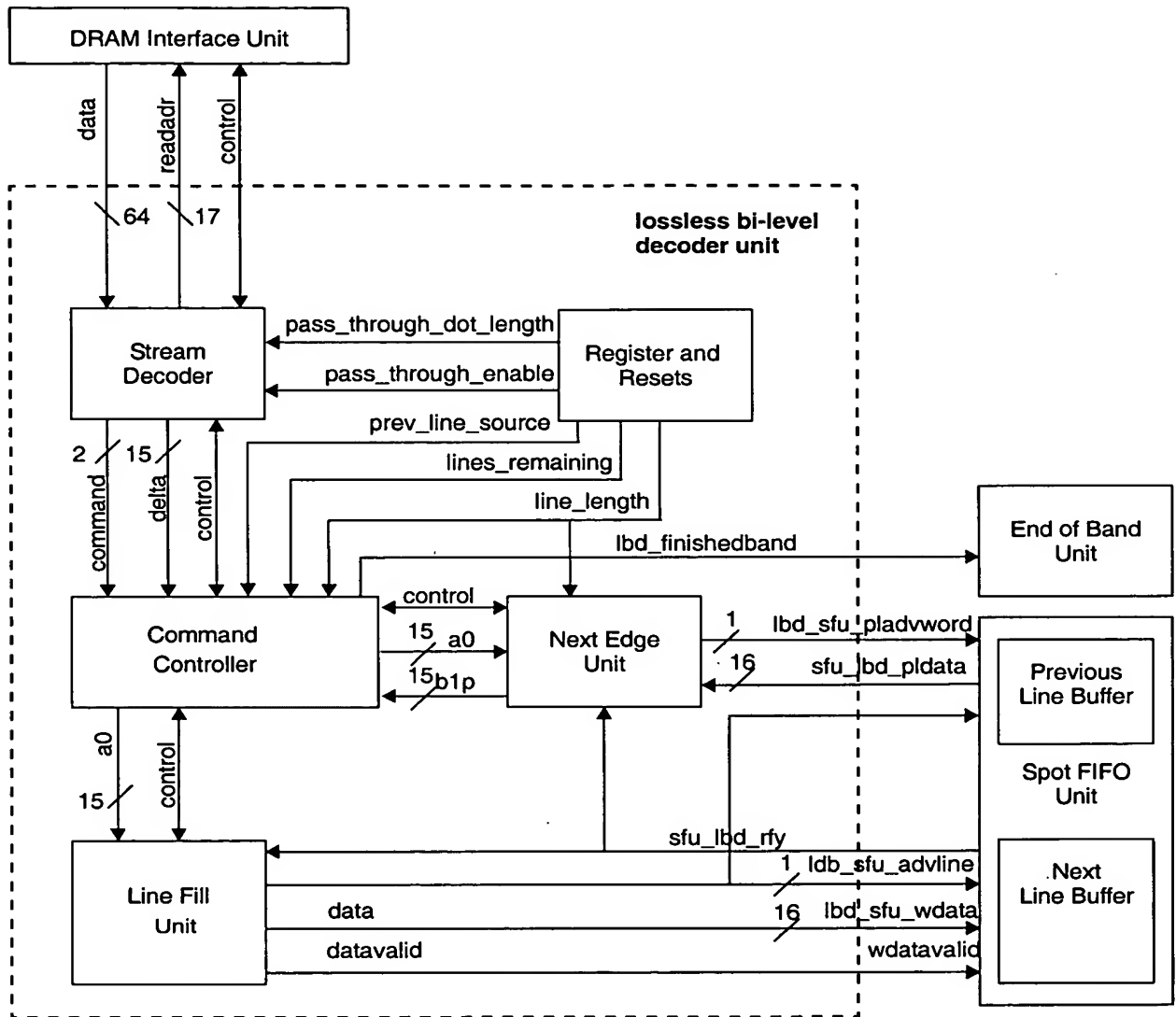


FIG. 148

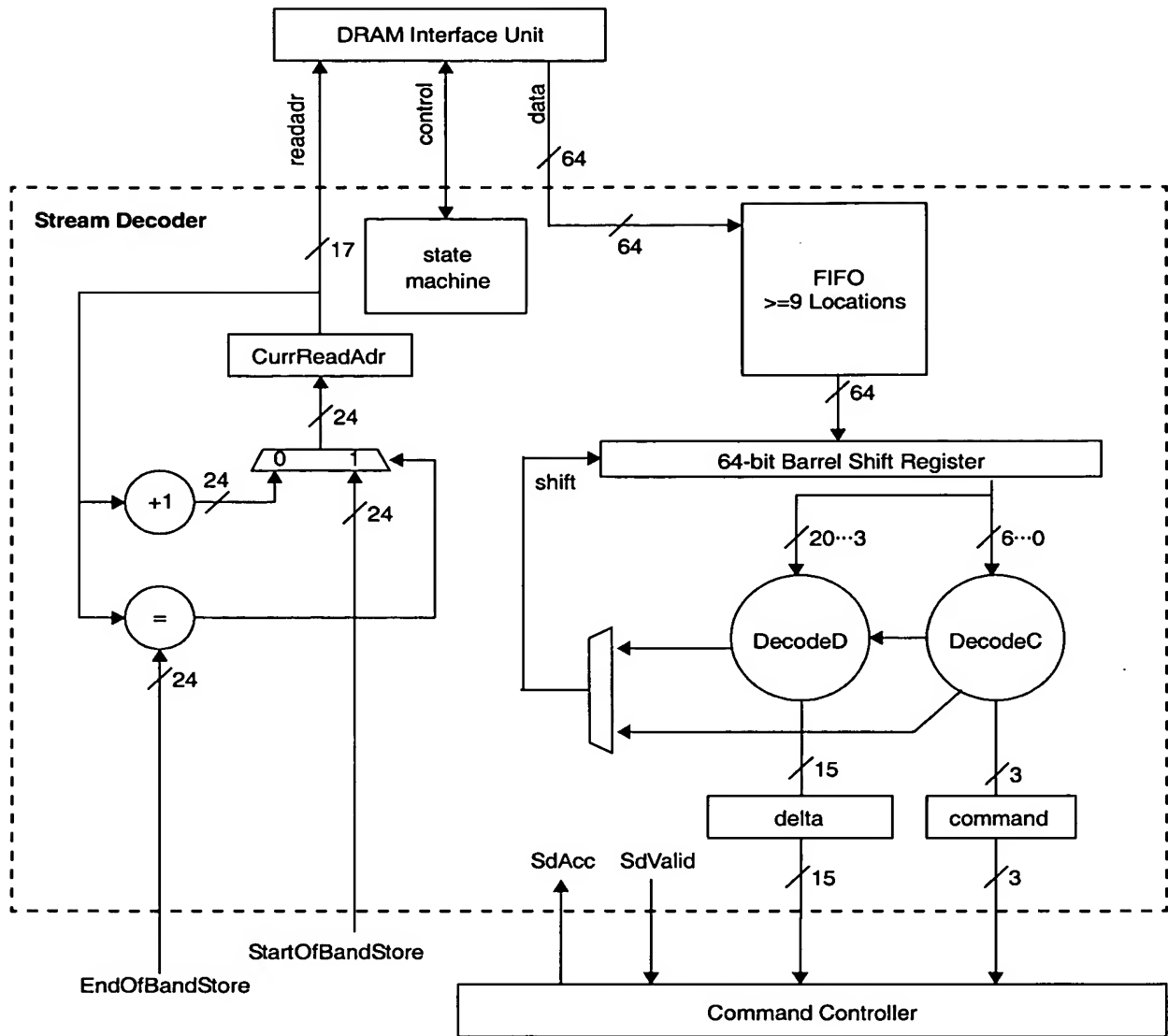


FIG. 149

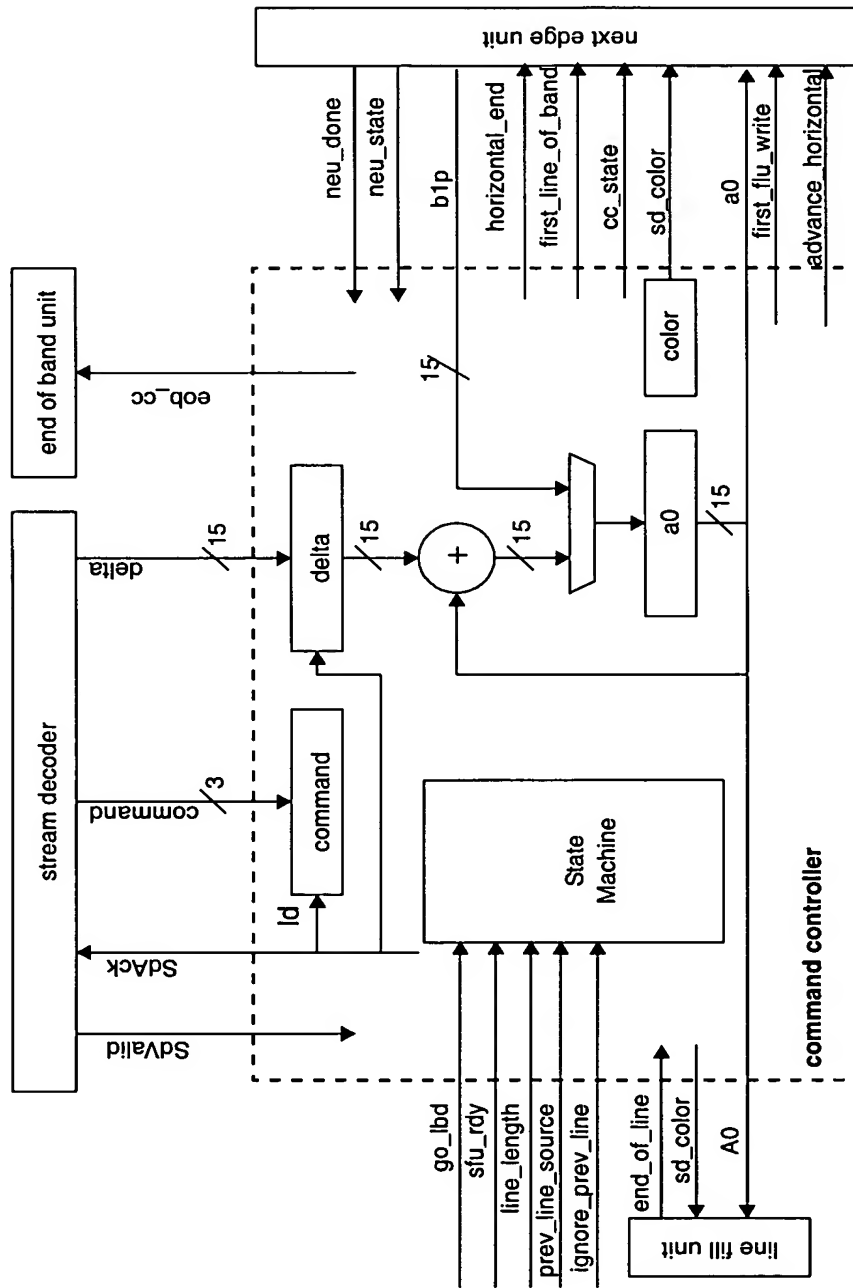


FIG. 150

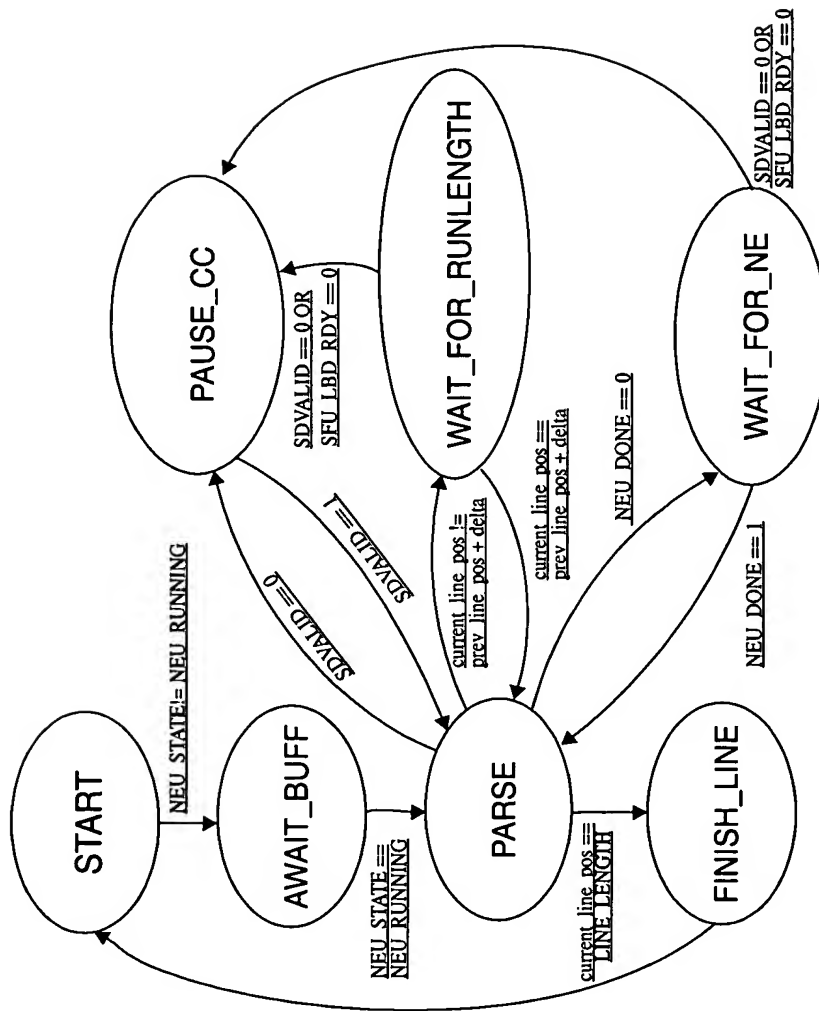


FIG. 151

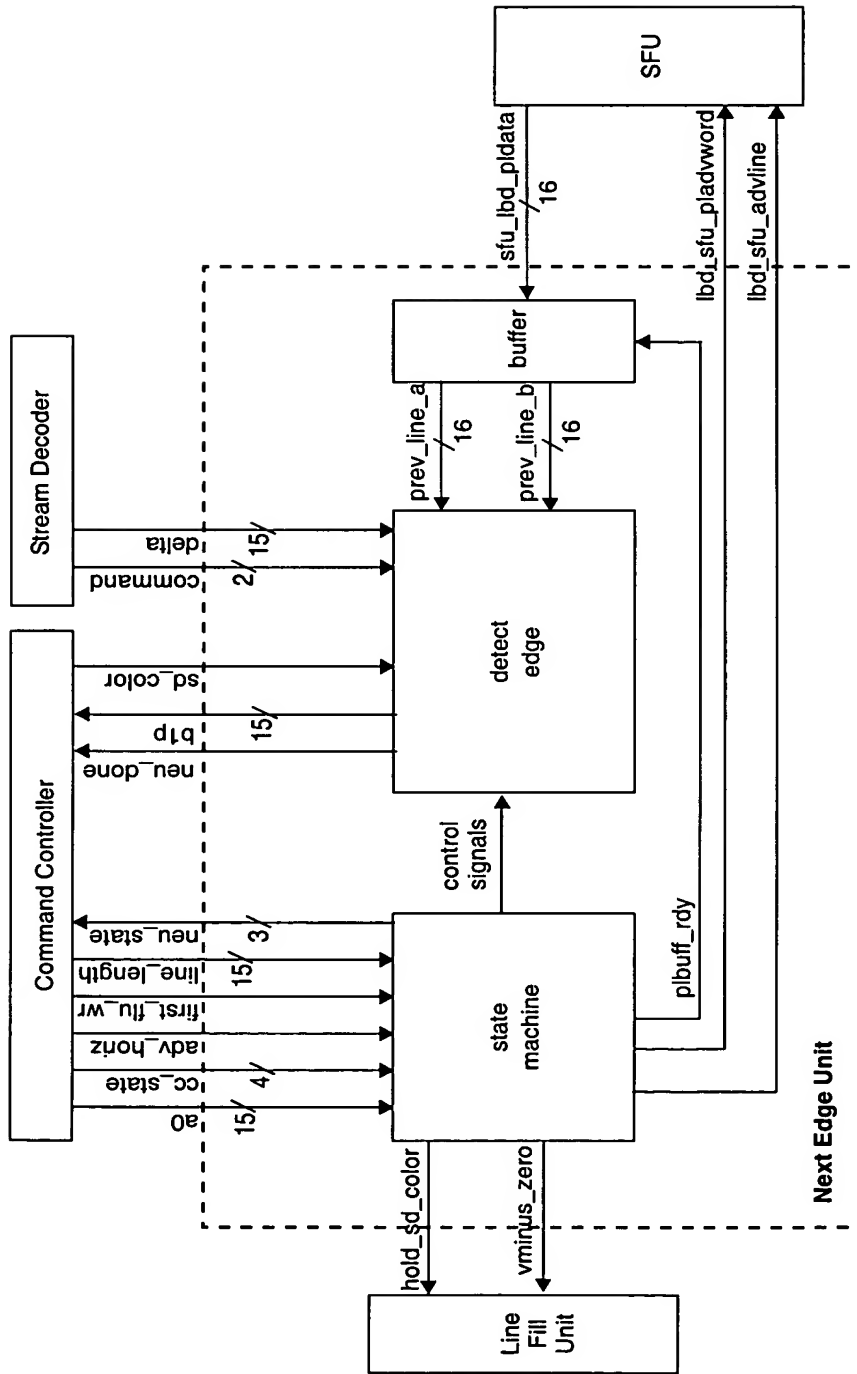
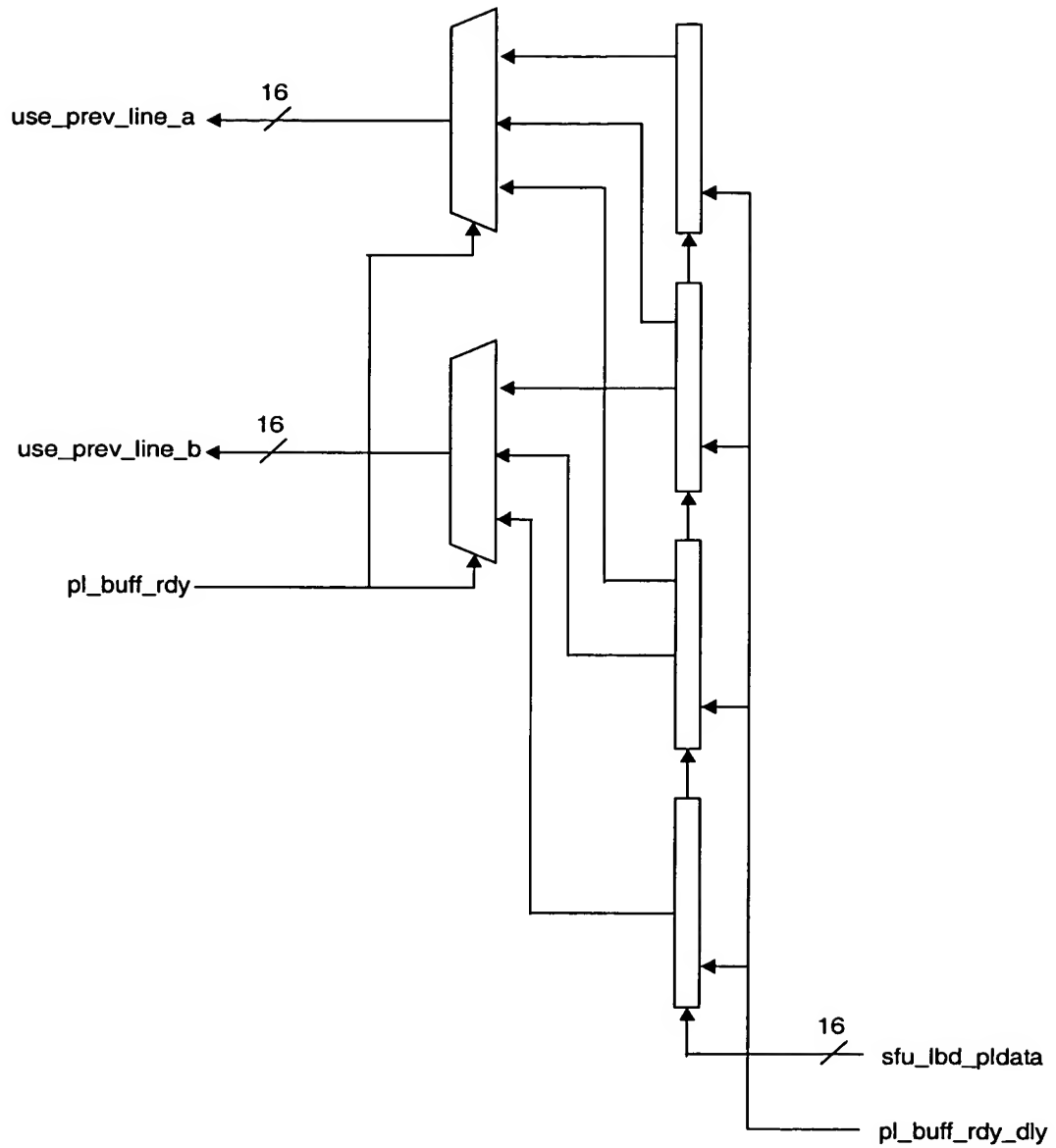


FIG. 152

*FIG. 153*

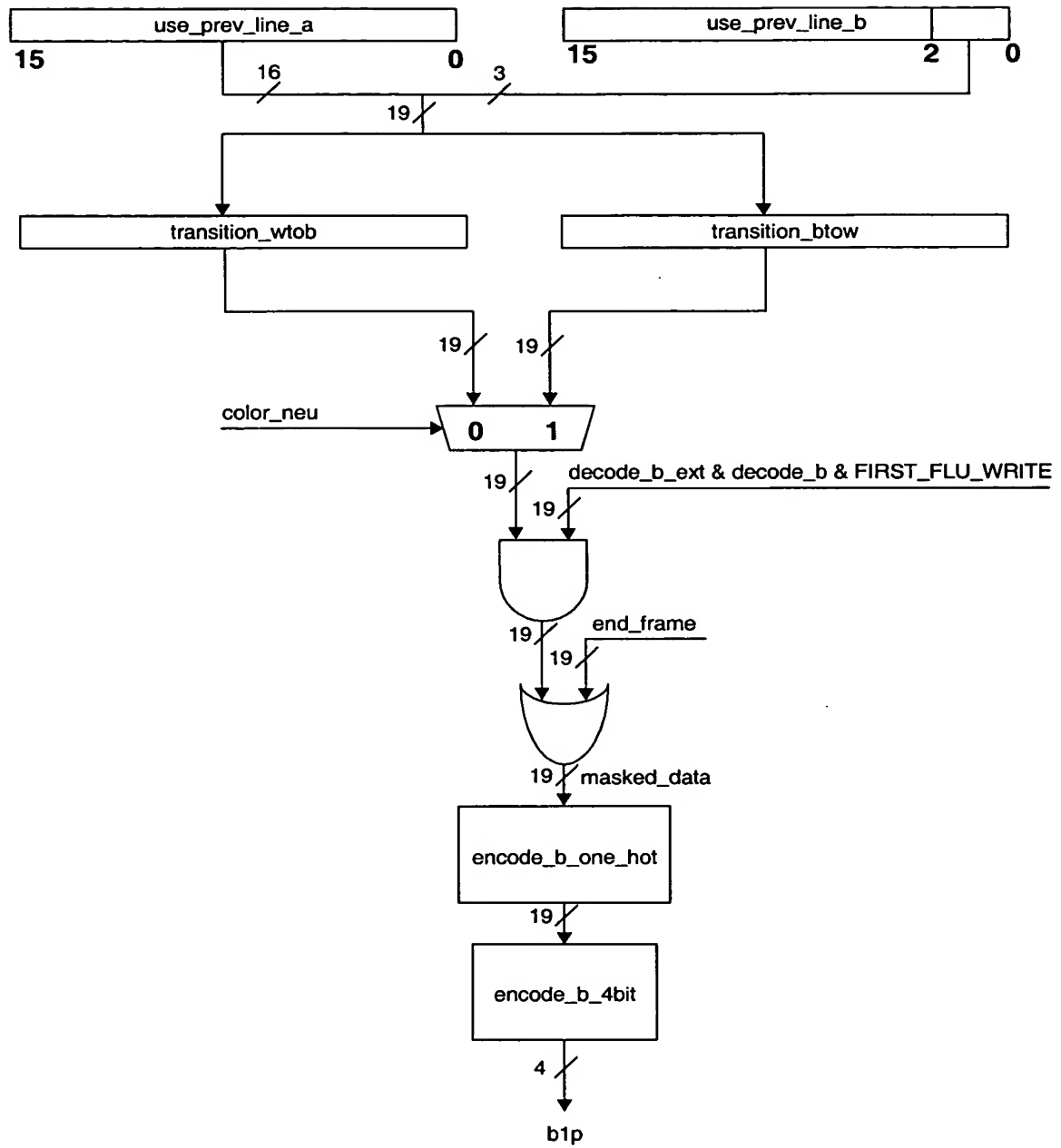
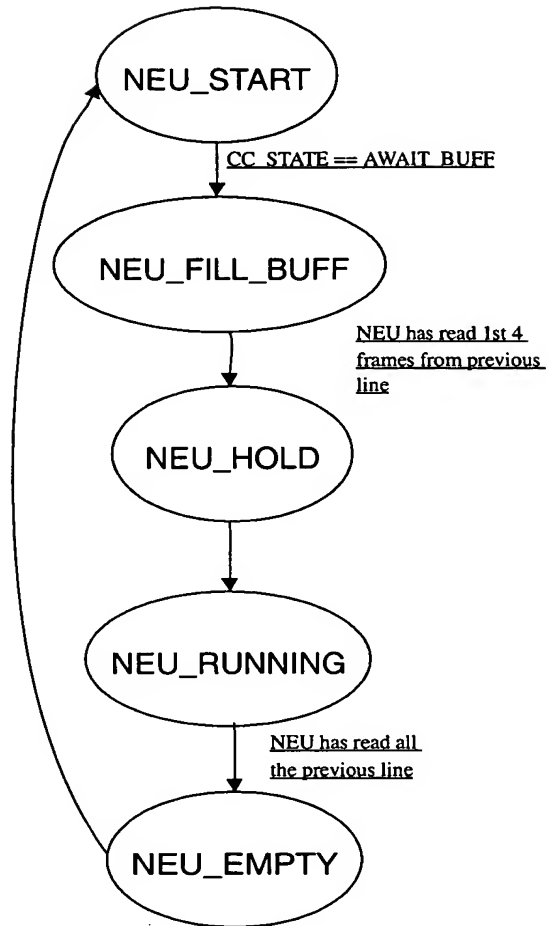


FIG. 154

*FIG. 155*

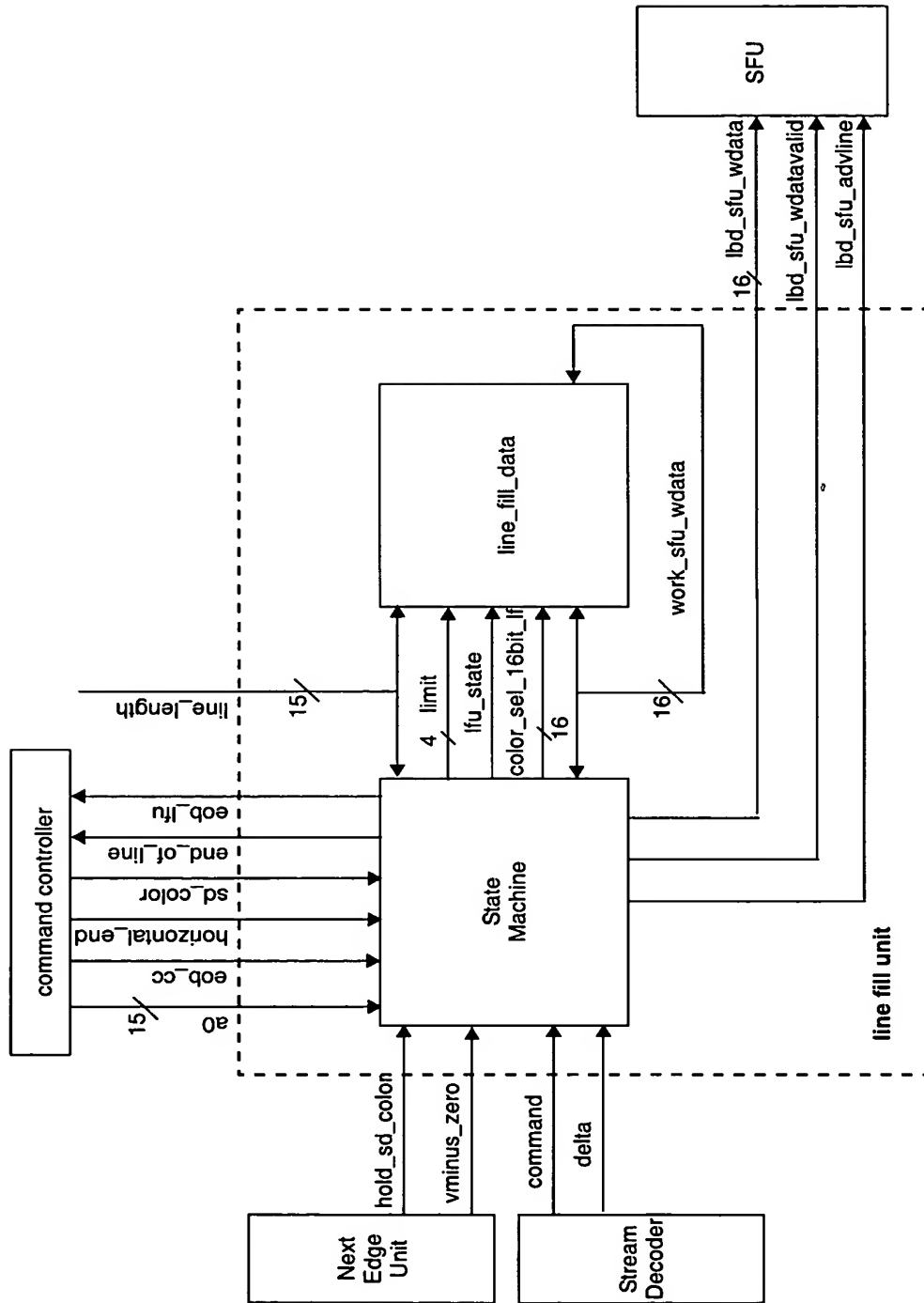


FIG. 156

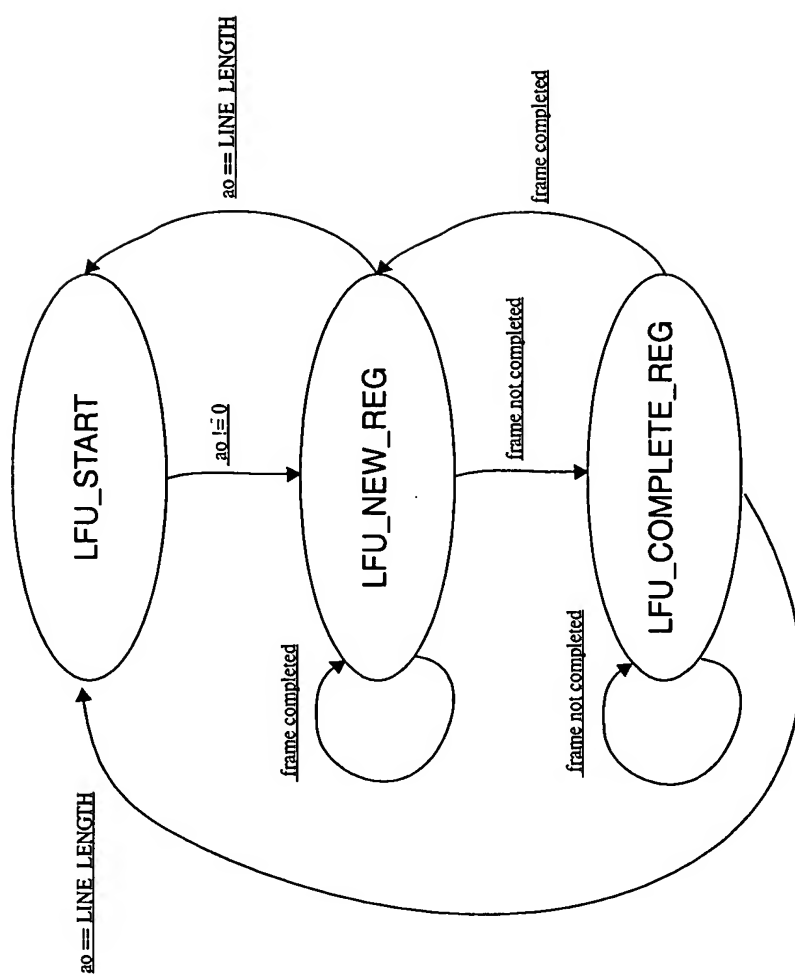


FIG. 157

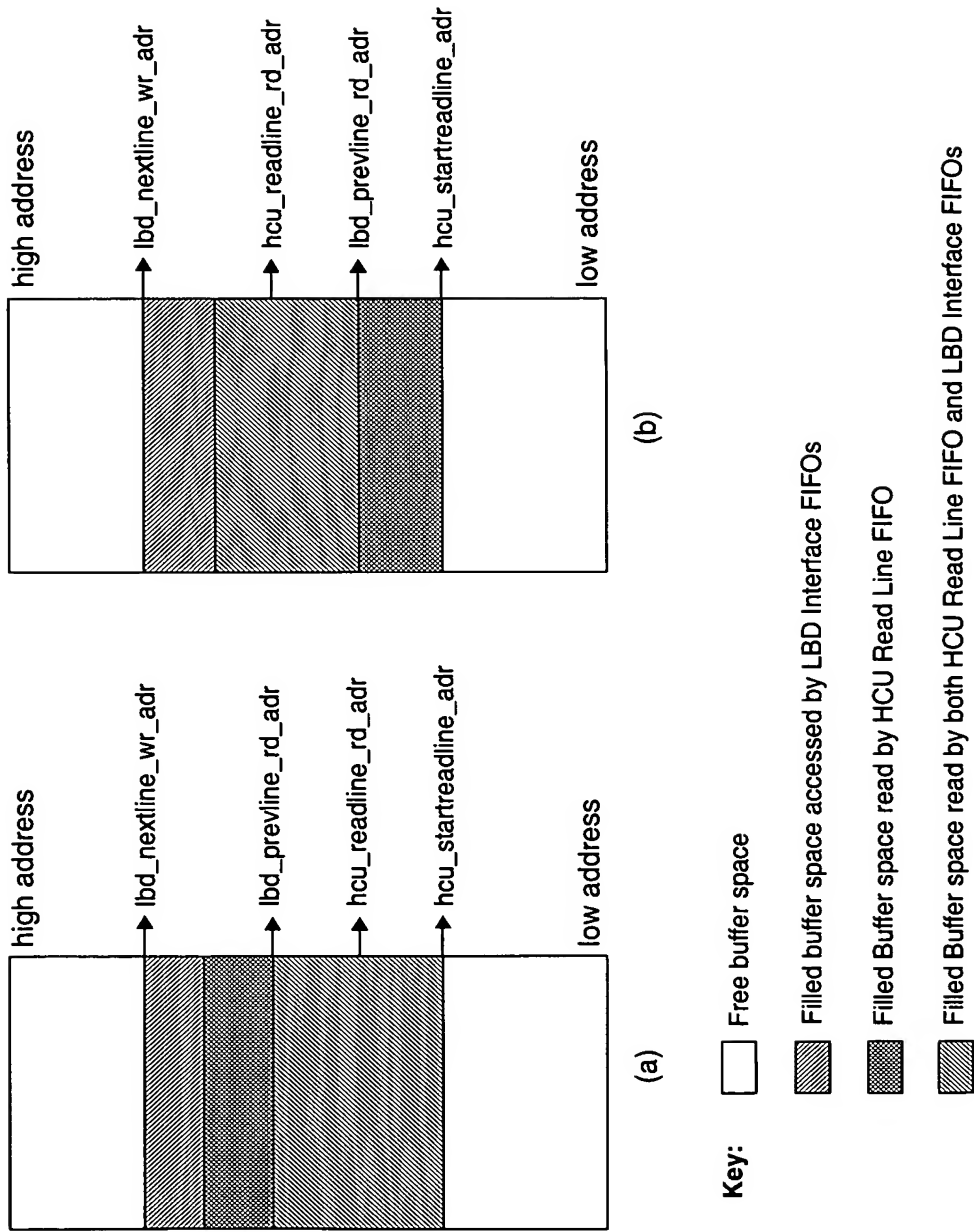


FIG. 158

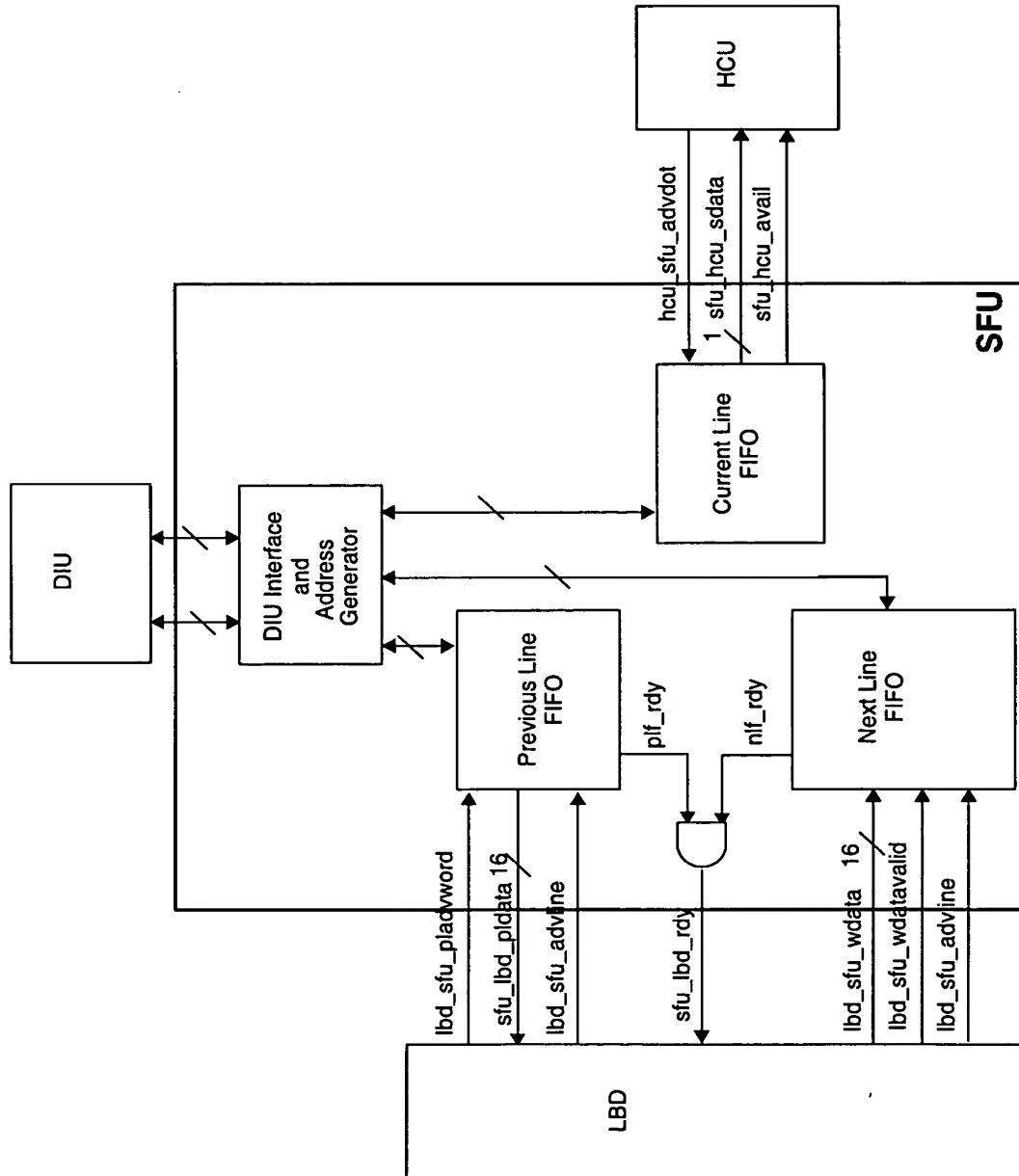


FIG. 159

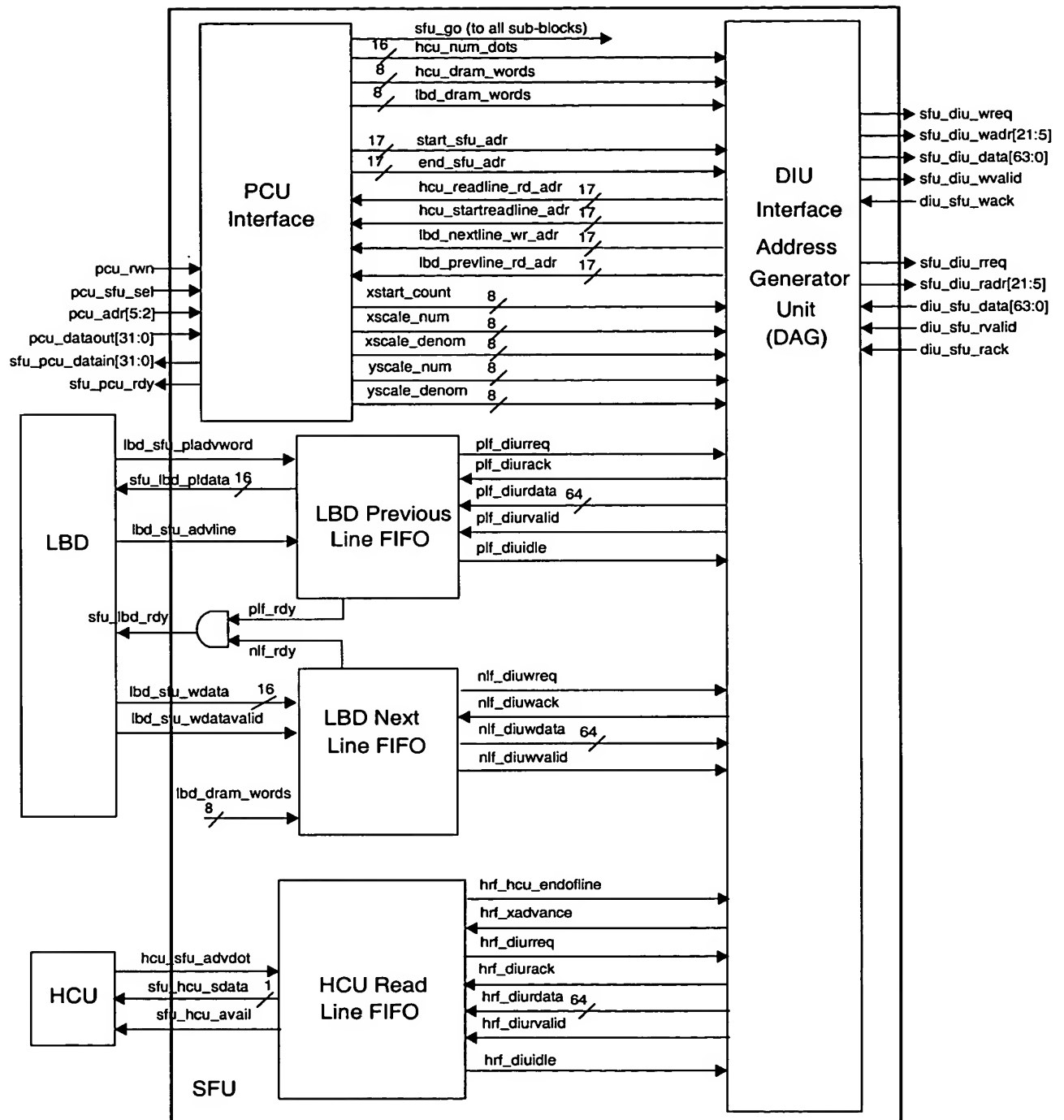


FIG. 160

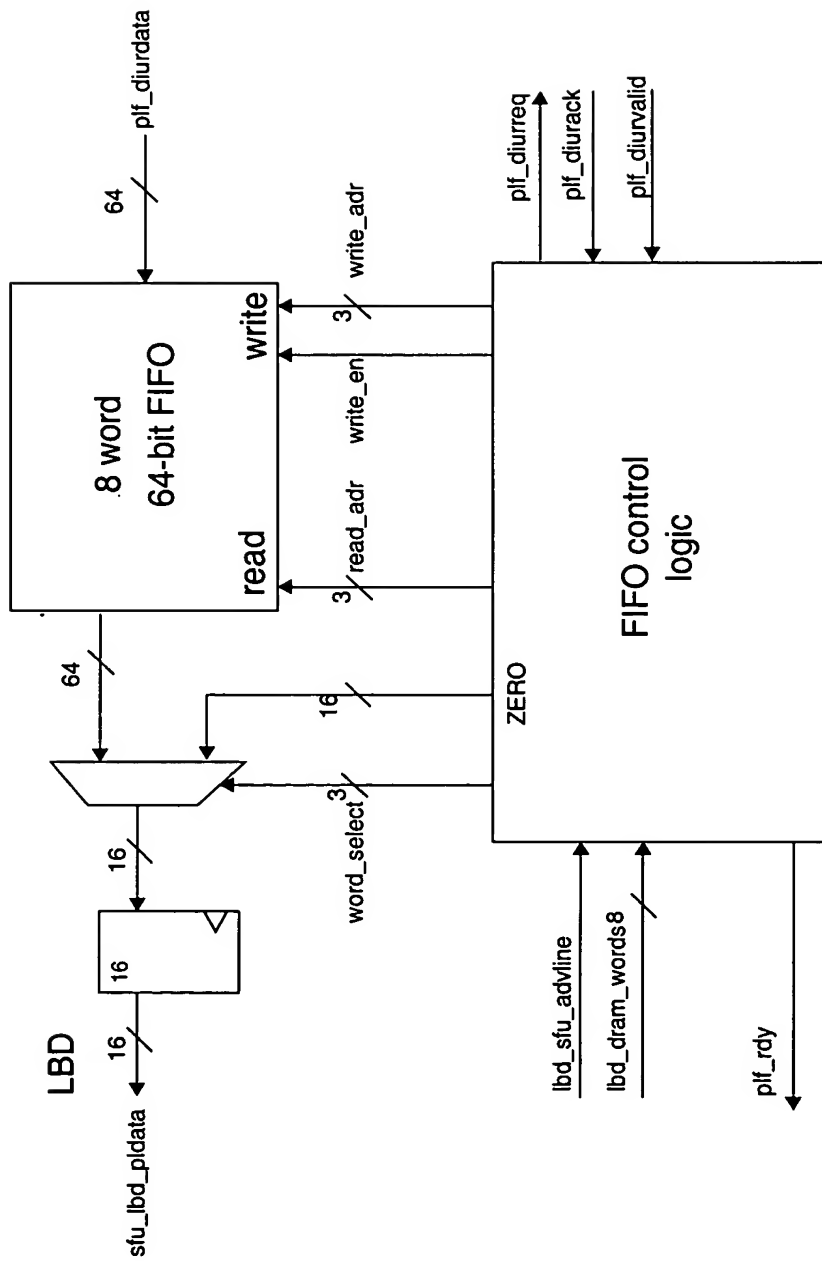


FIG. 161

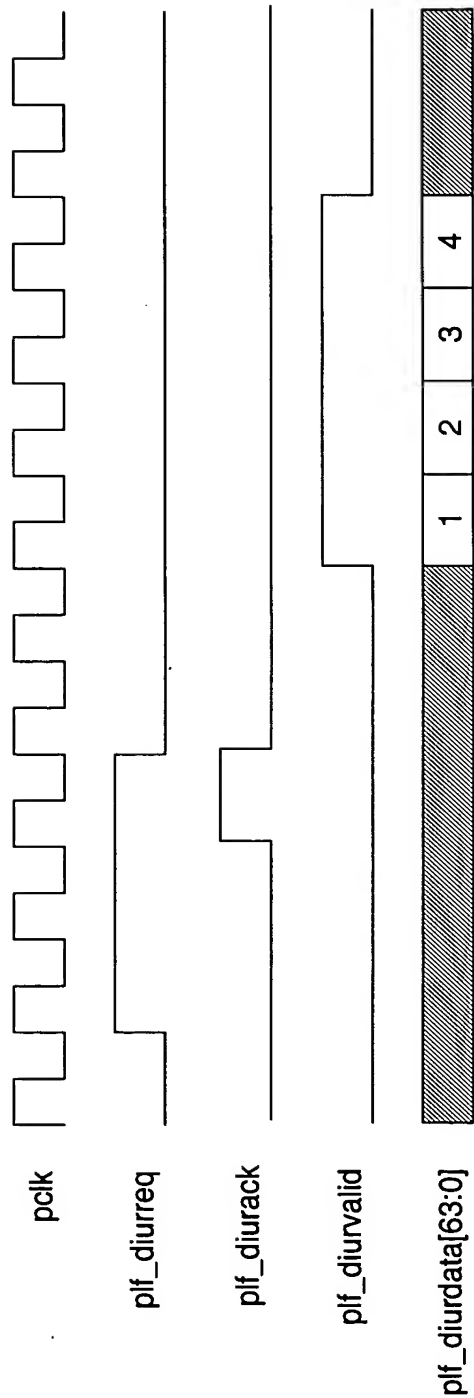


FIG. 162

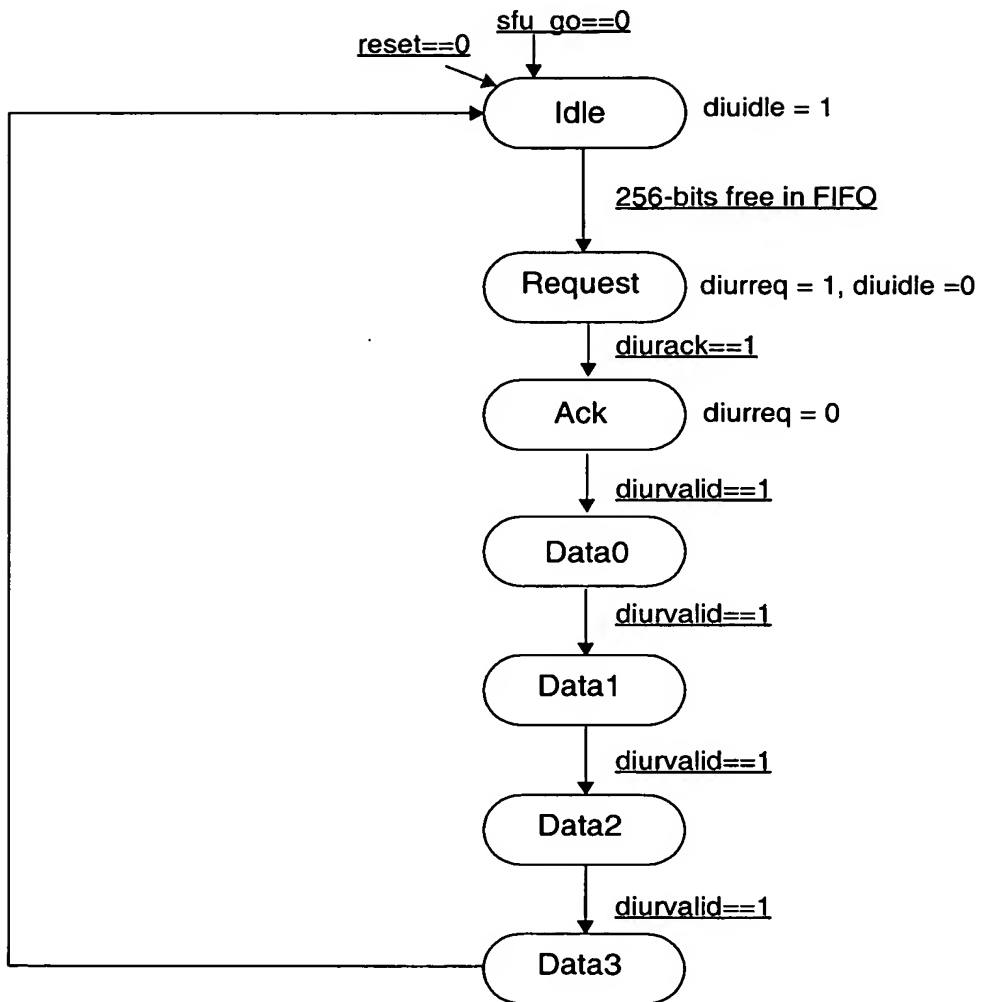


FIG. 163

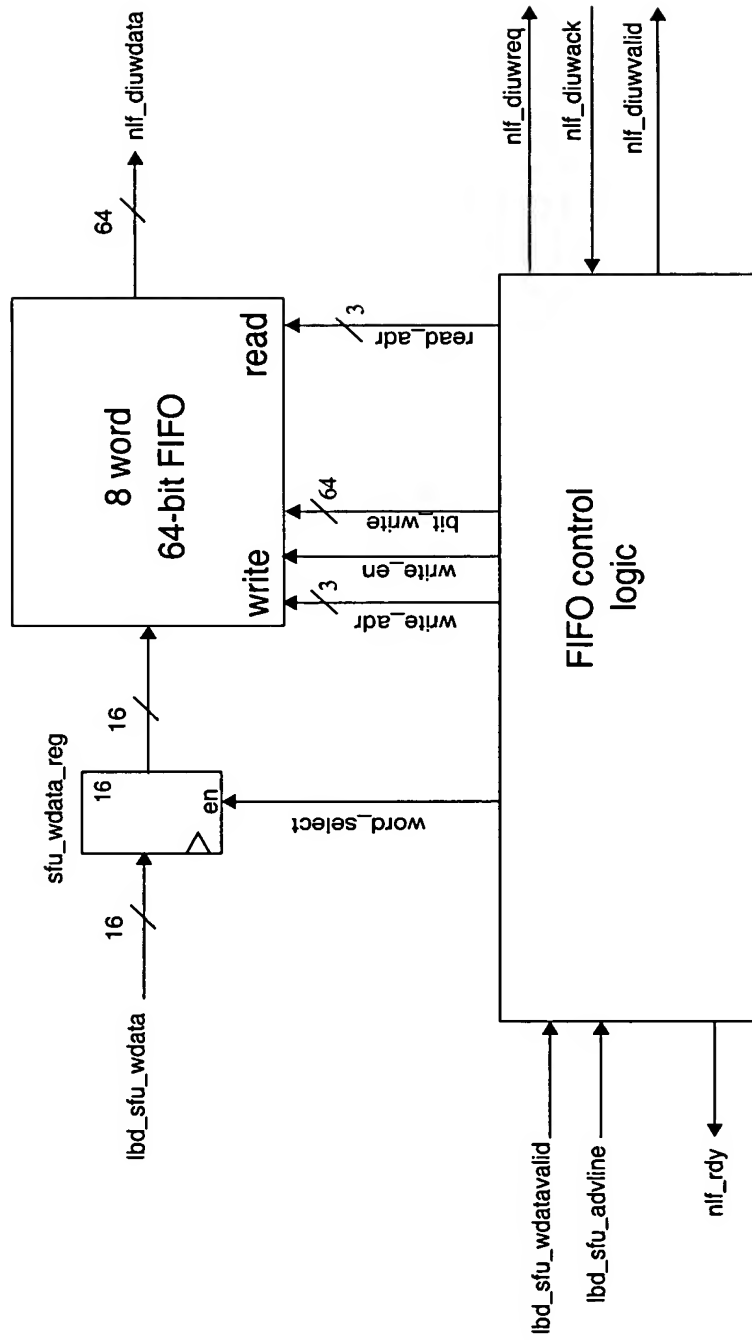


FIG. 164

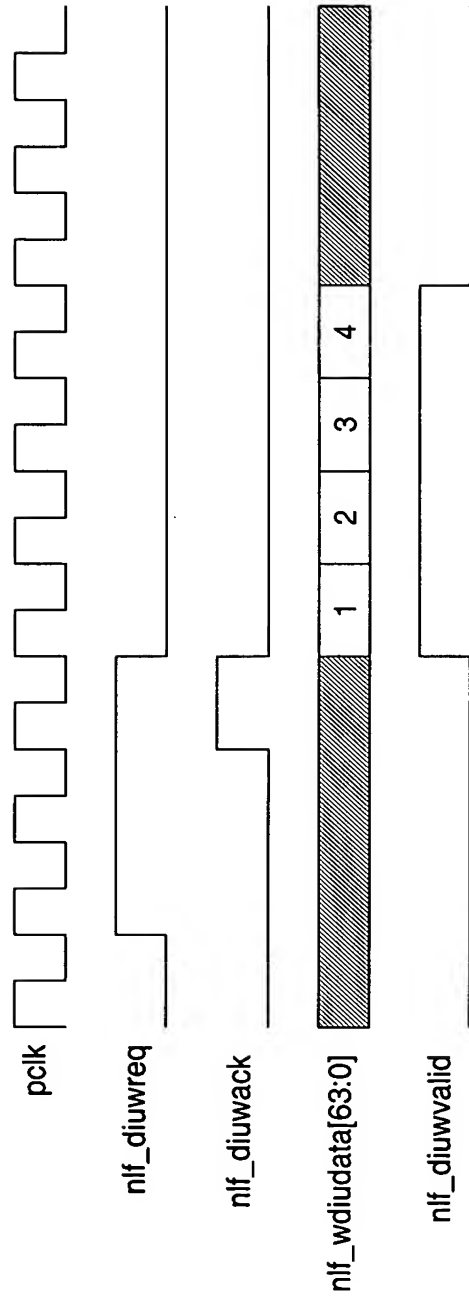
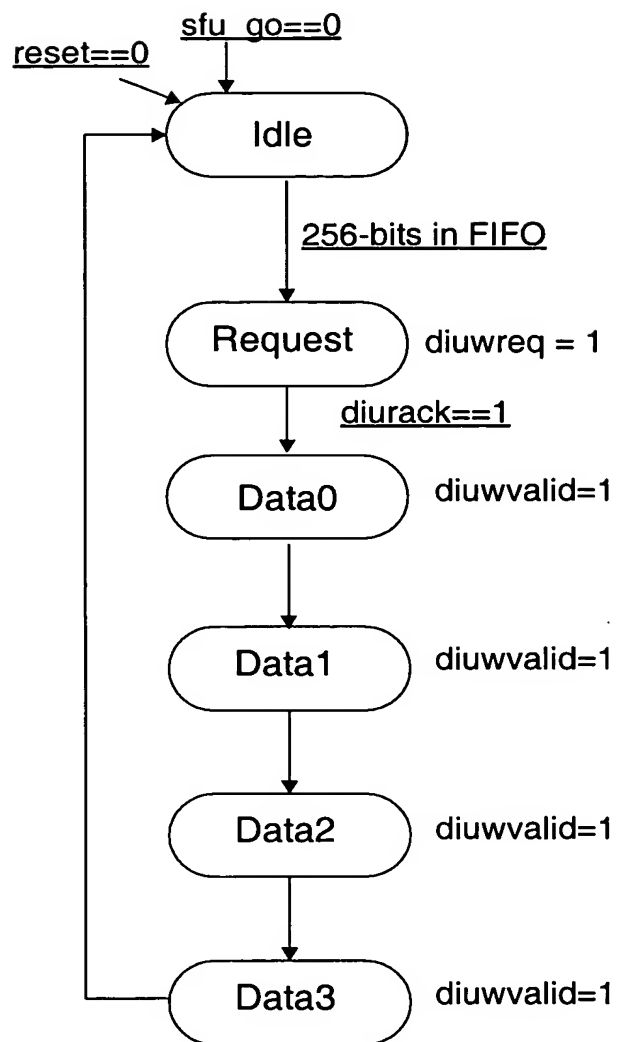


FIG. 165

*FIG. 166*

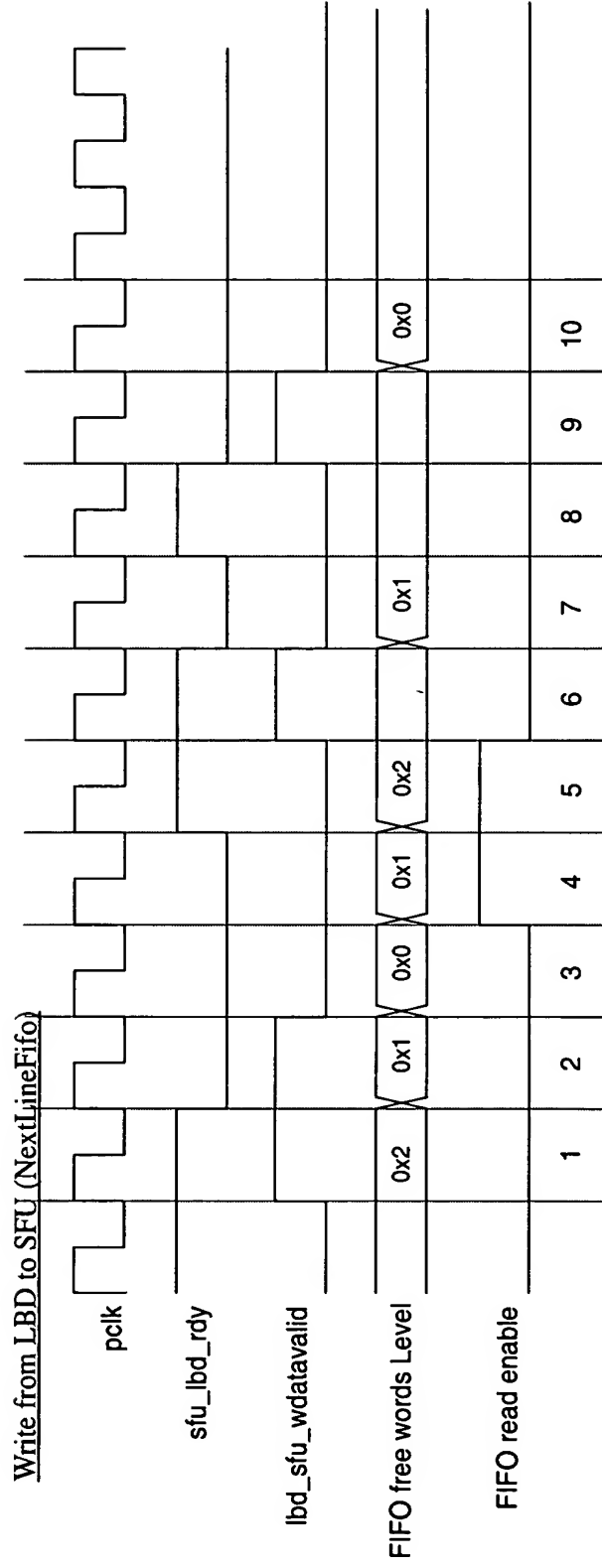


FIG. 167

Read from SFU to LBD (PreviousLineFifo)

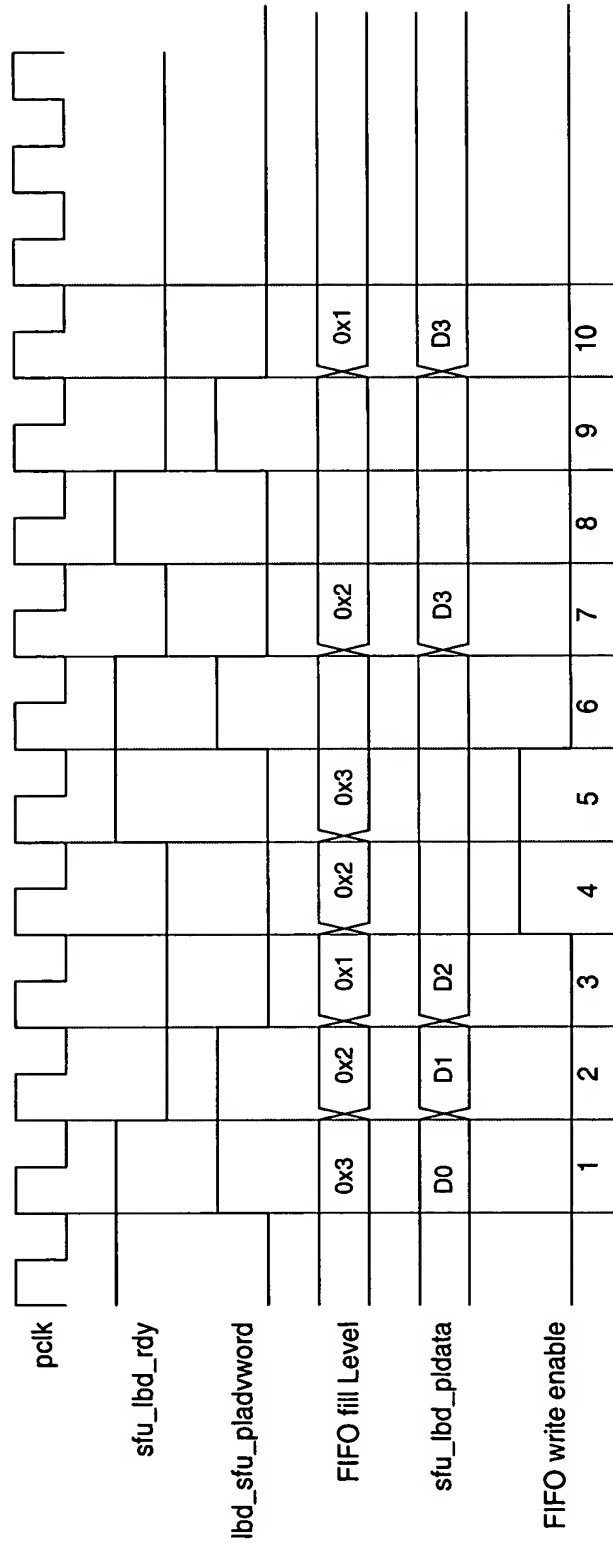


FIG. 168

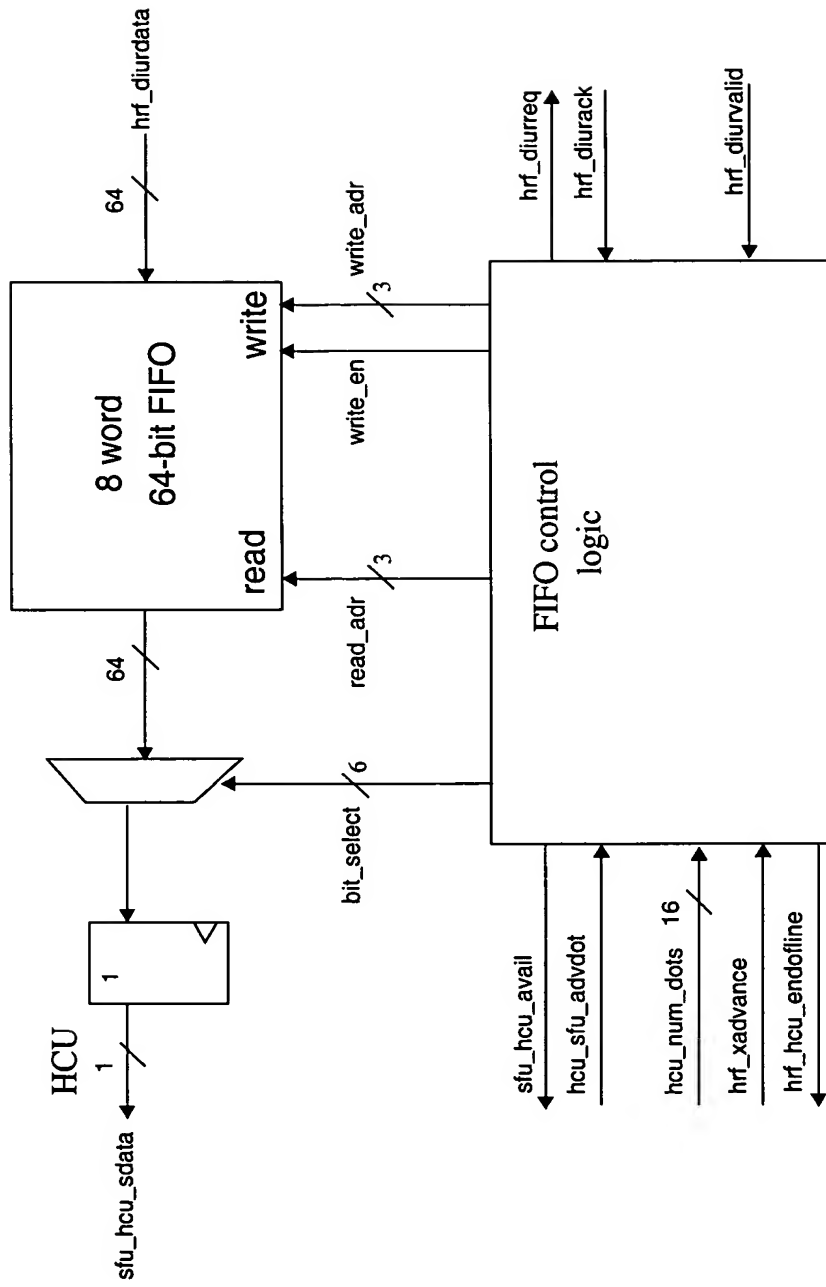


FIG. 169

150/331

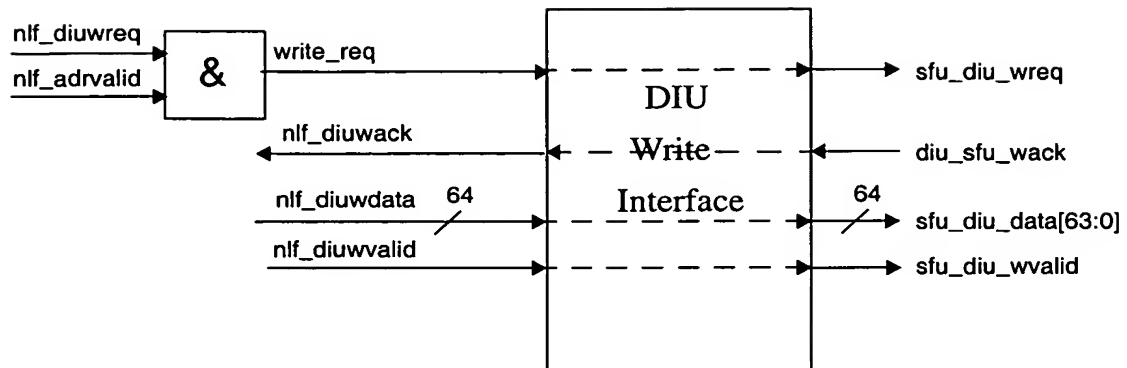


FIG. 170

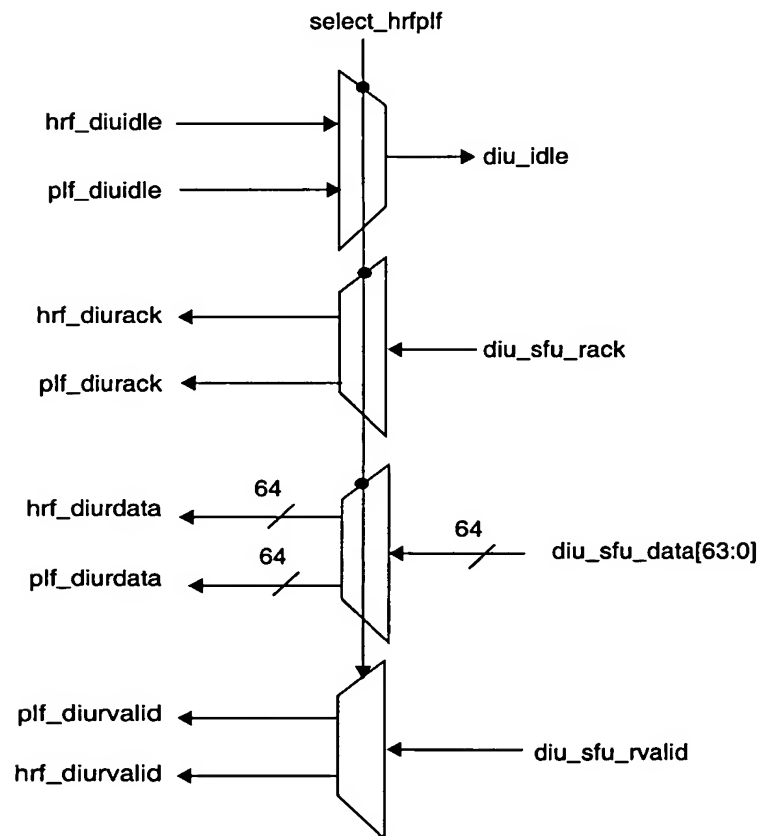


FIG. 171

151/331

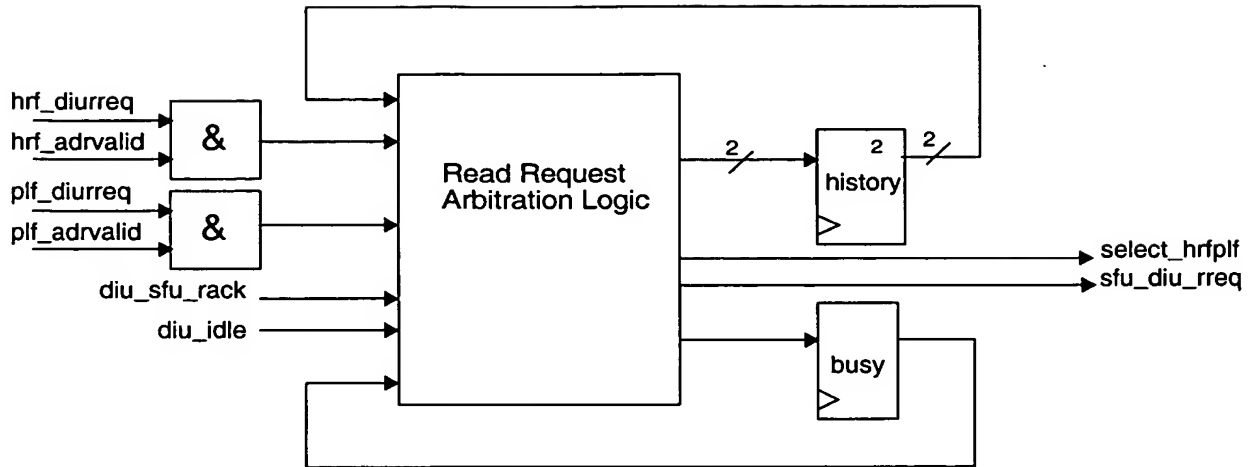


FIG. 172

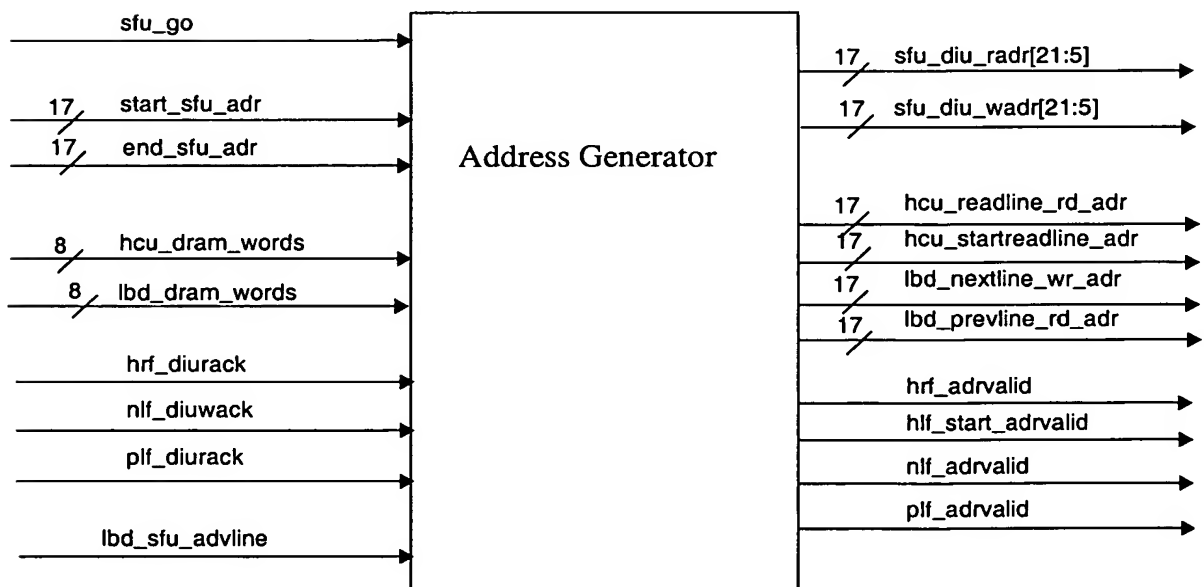


FIG. 173

152/331

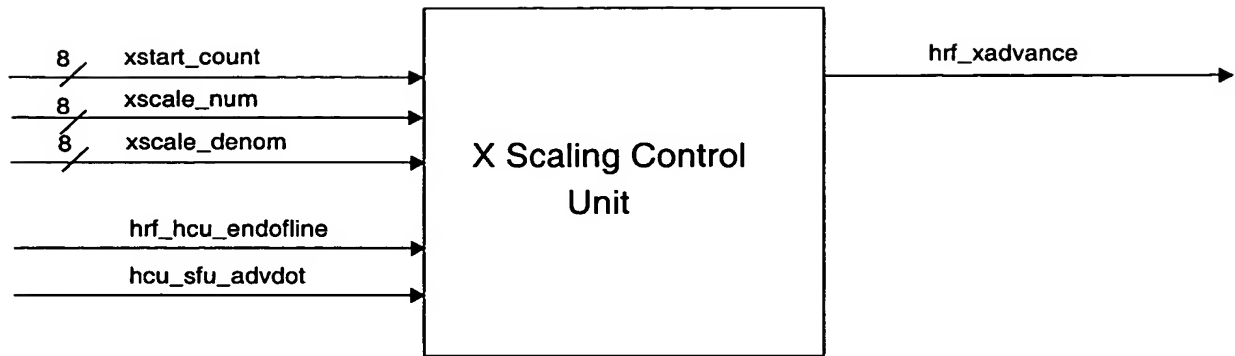


FIG. 174

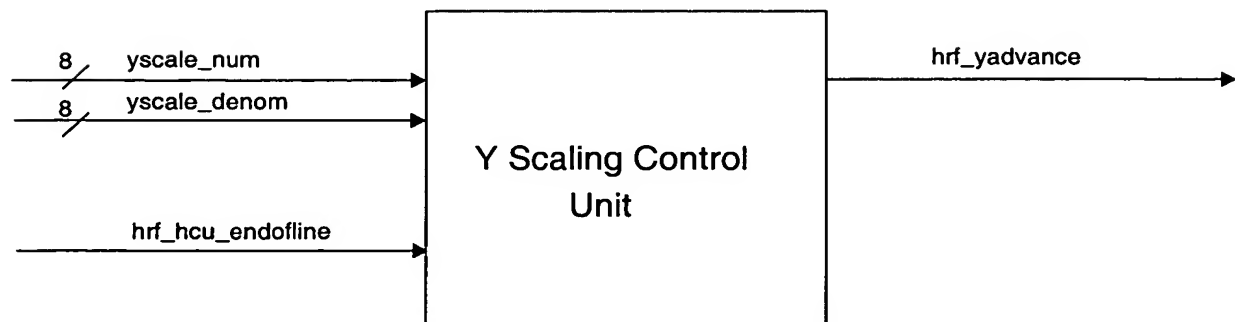


FIG. 175

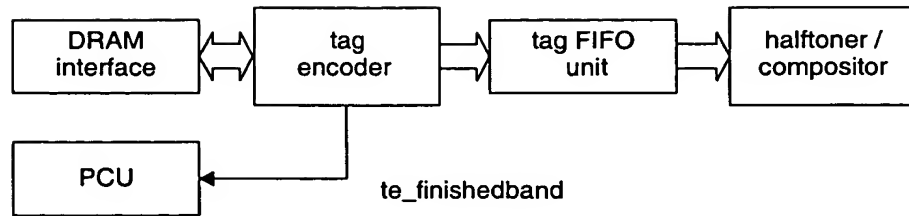


FIG. 177

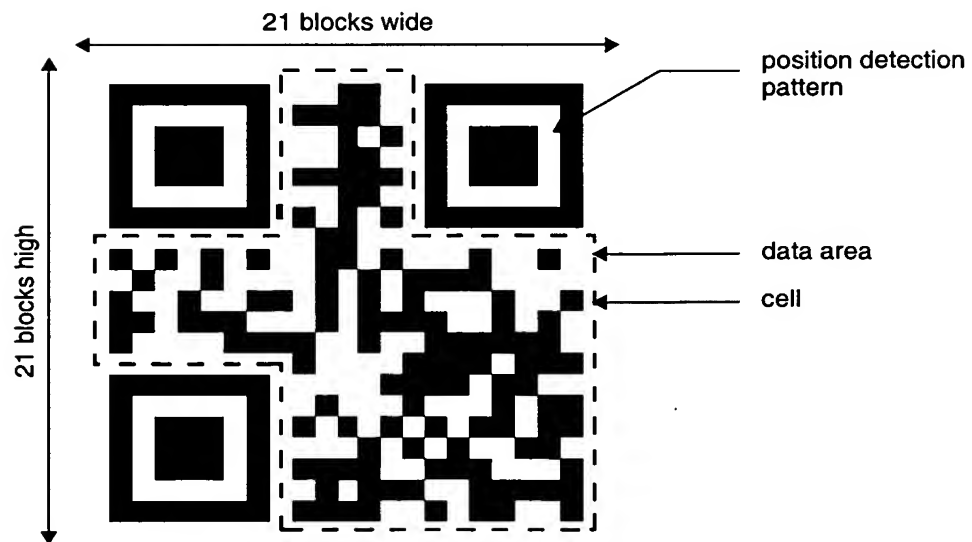
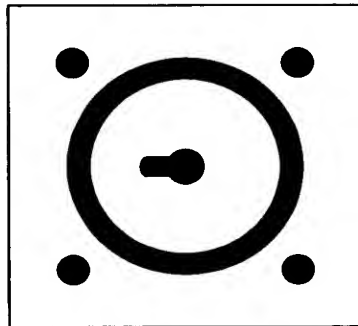
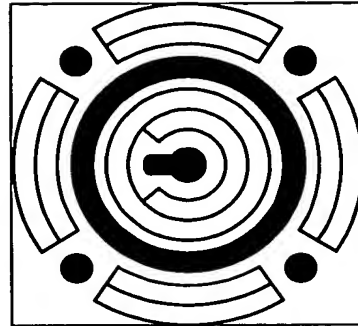


FIG. 178

155/331



(a) Netpage tag background pattern



(b) Netpage tag showing data area

FIG. 179

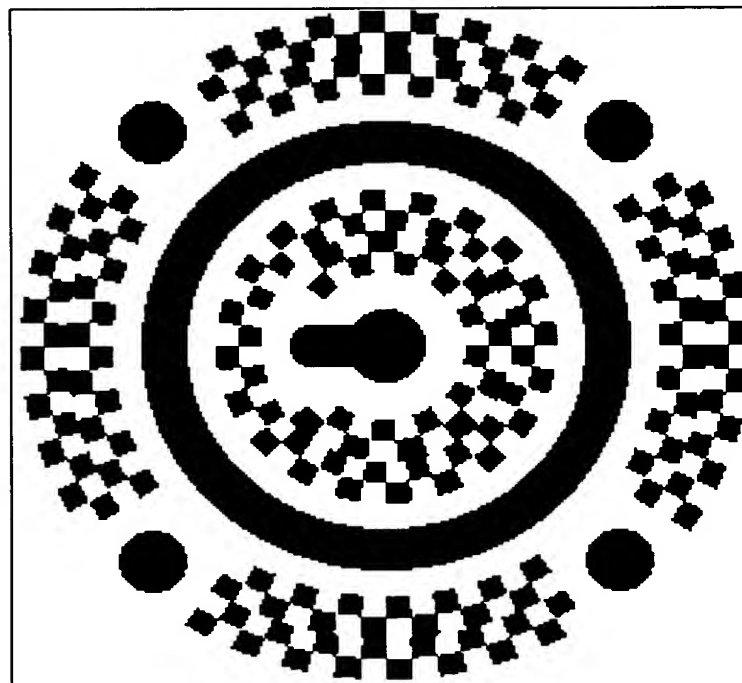


FIG. 180

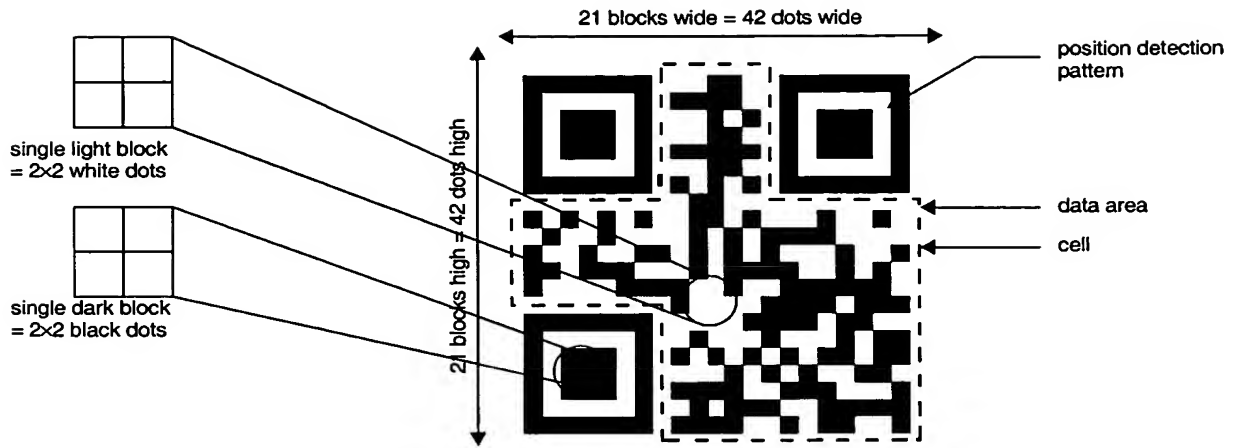


FIG. 181

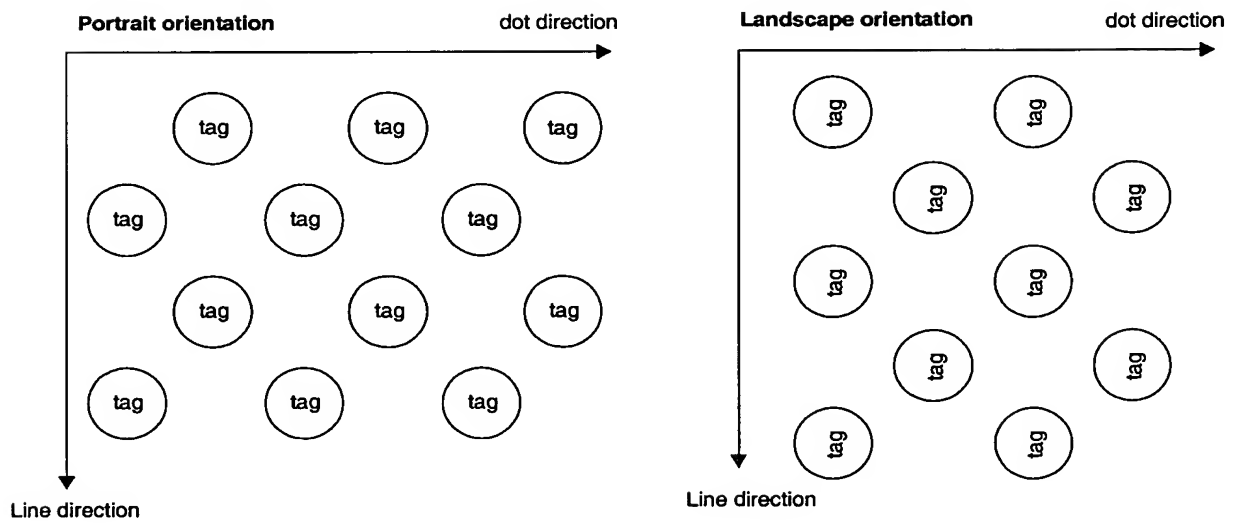


FIG. 182

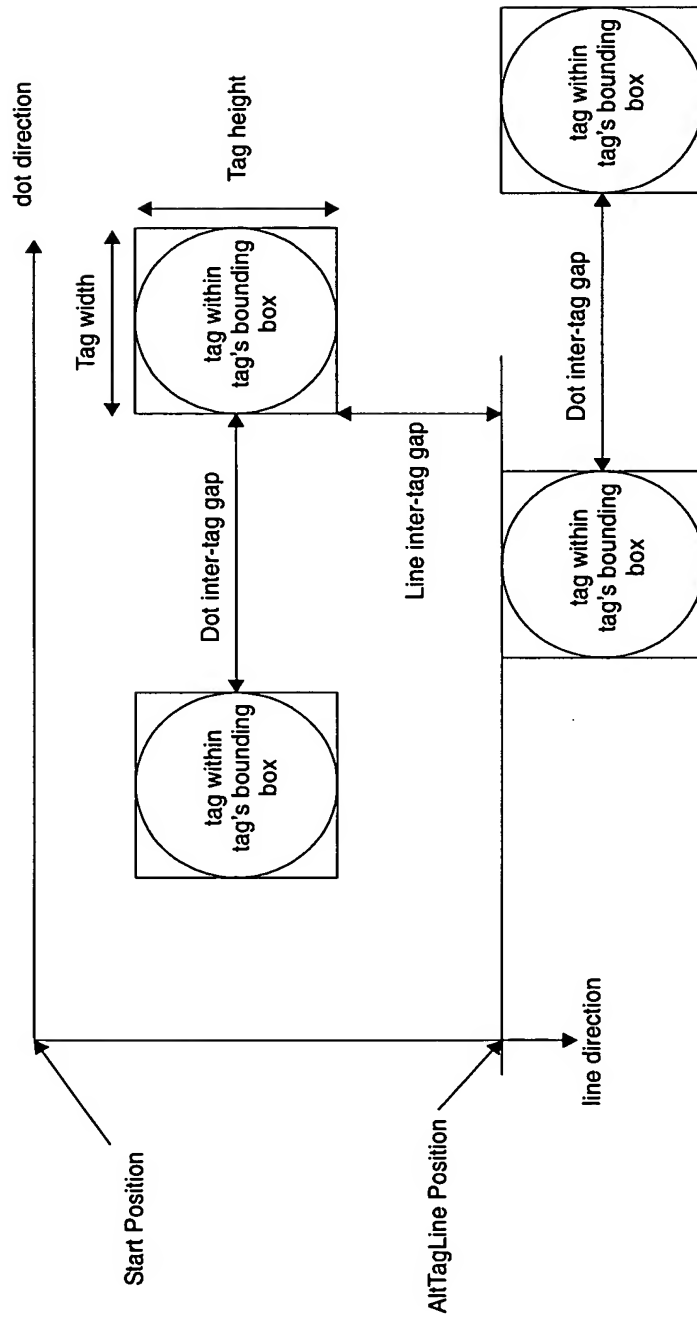


FIG. 183

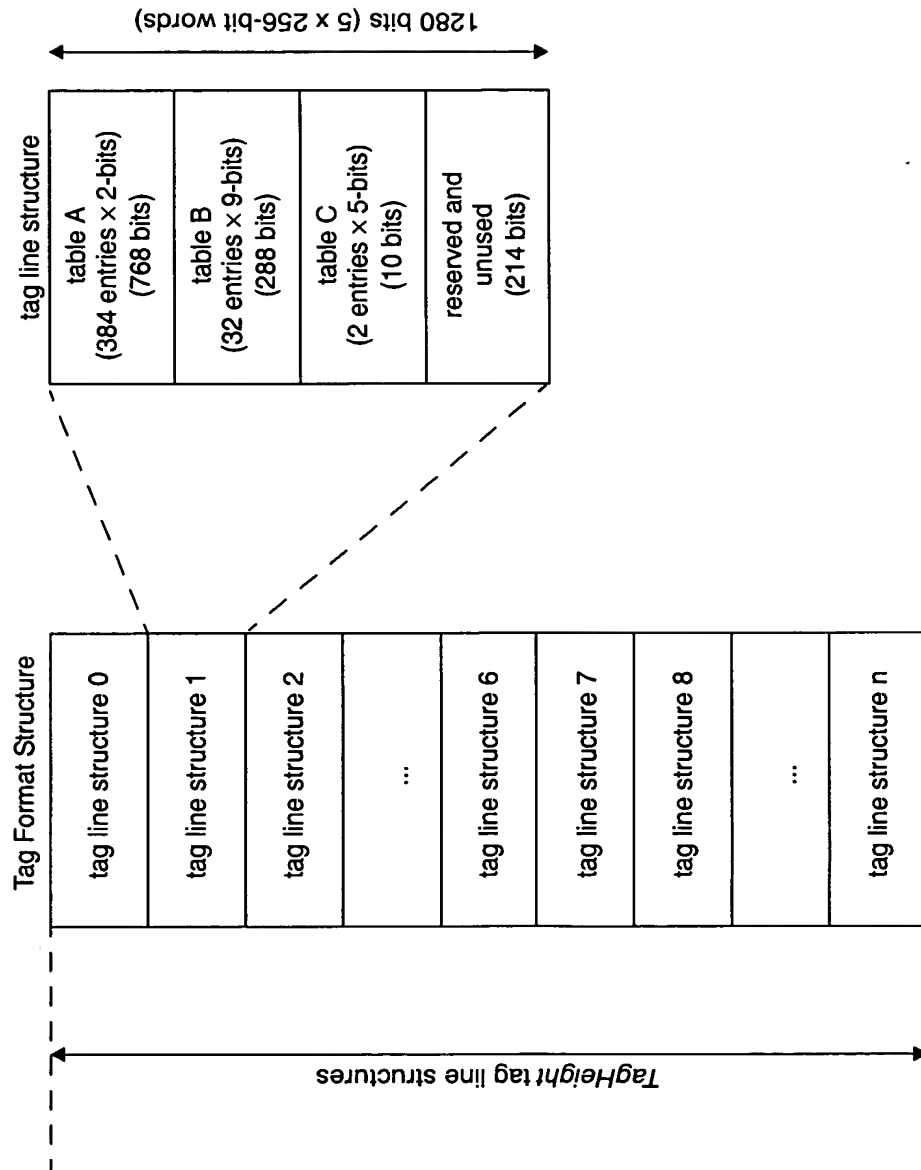


FIG. 184

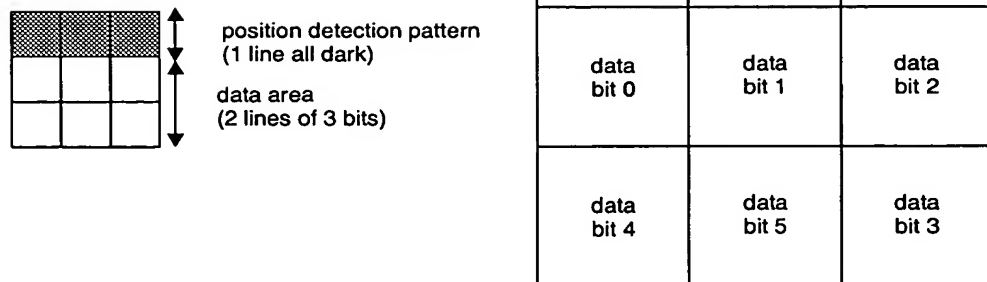


FIG. 185

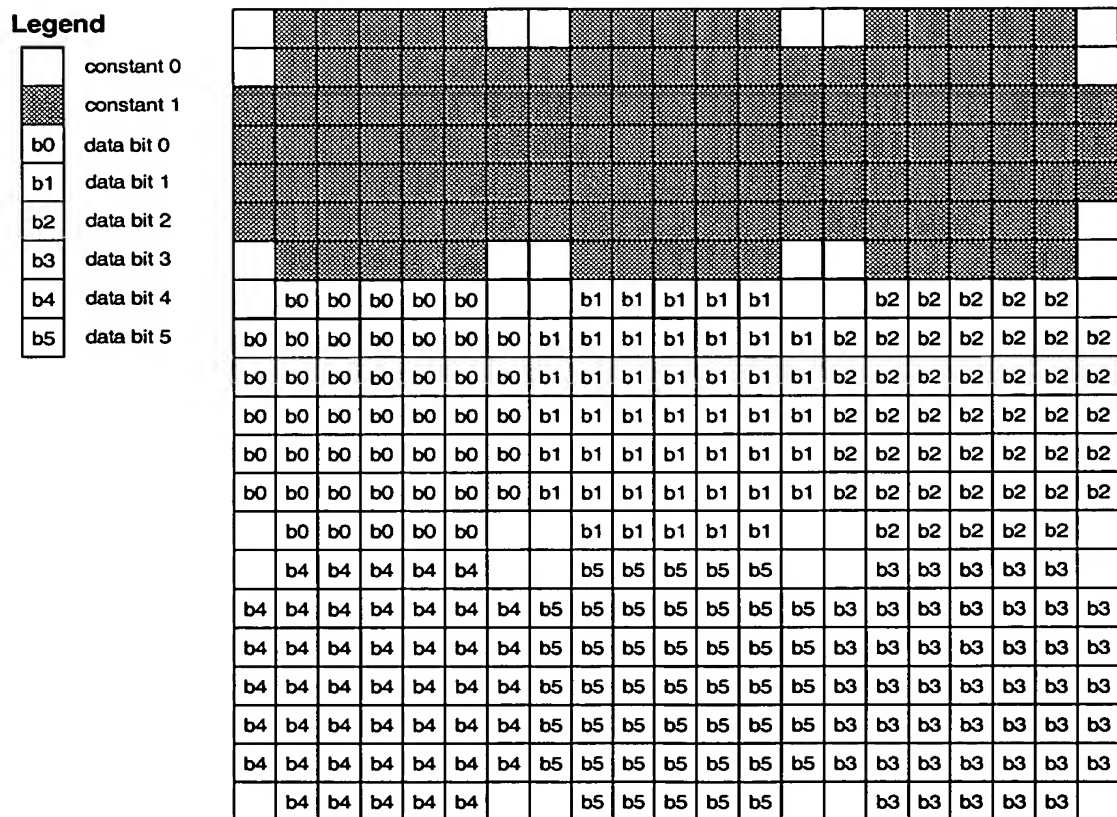


FIG. 186

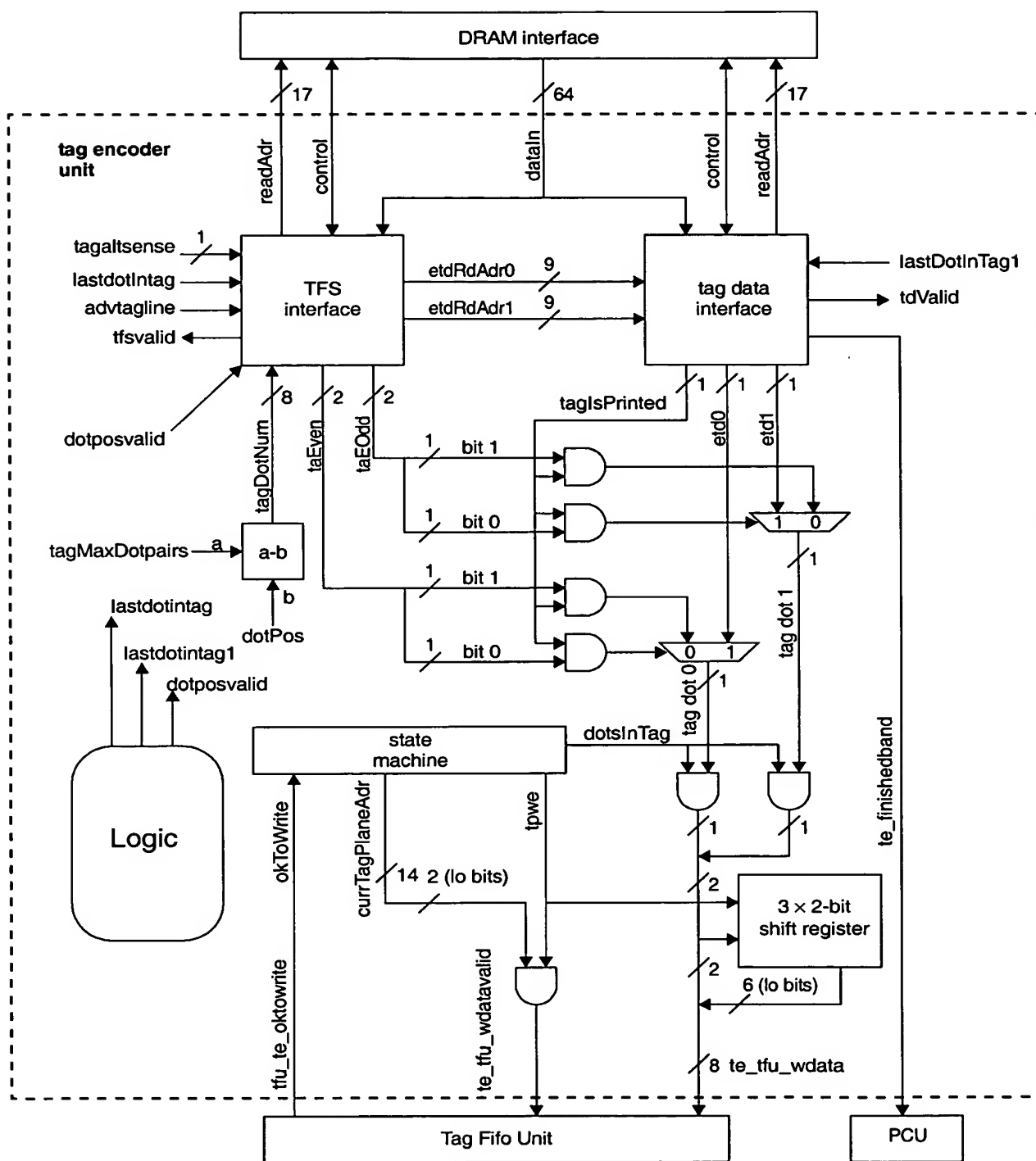


FIG. 187

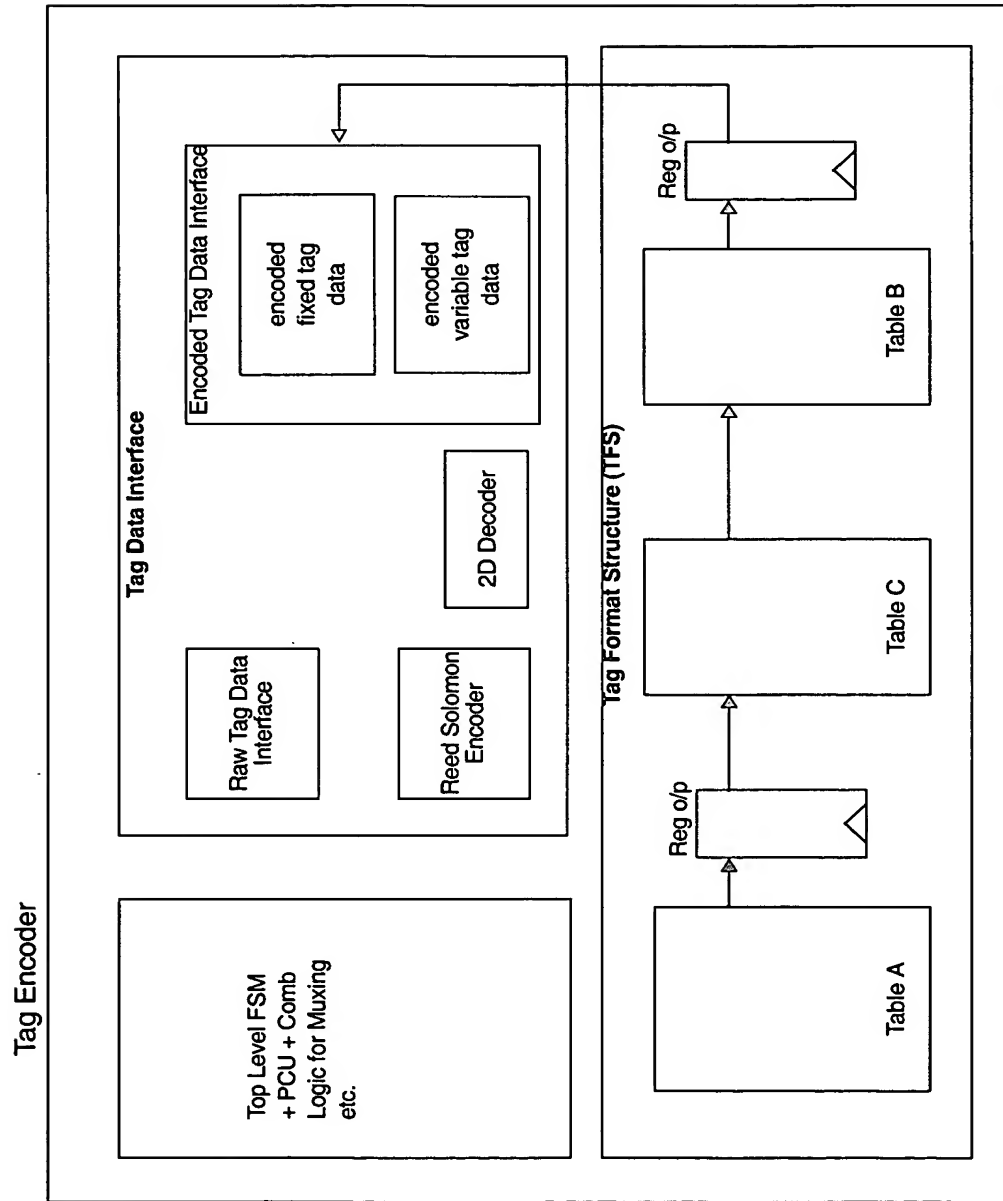


FIG. 188

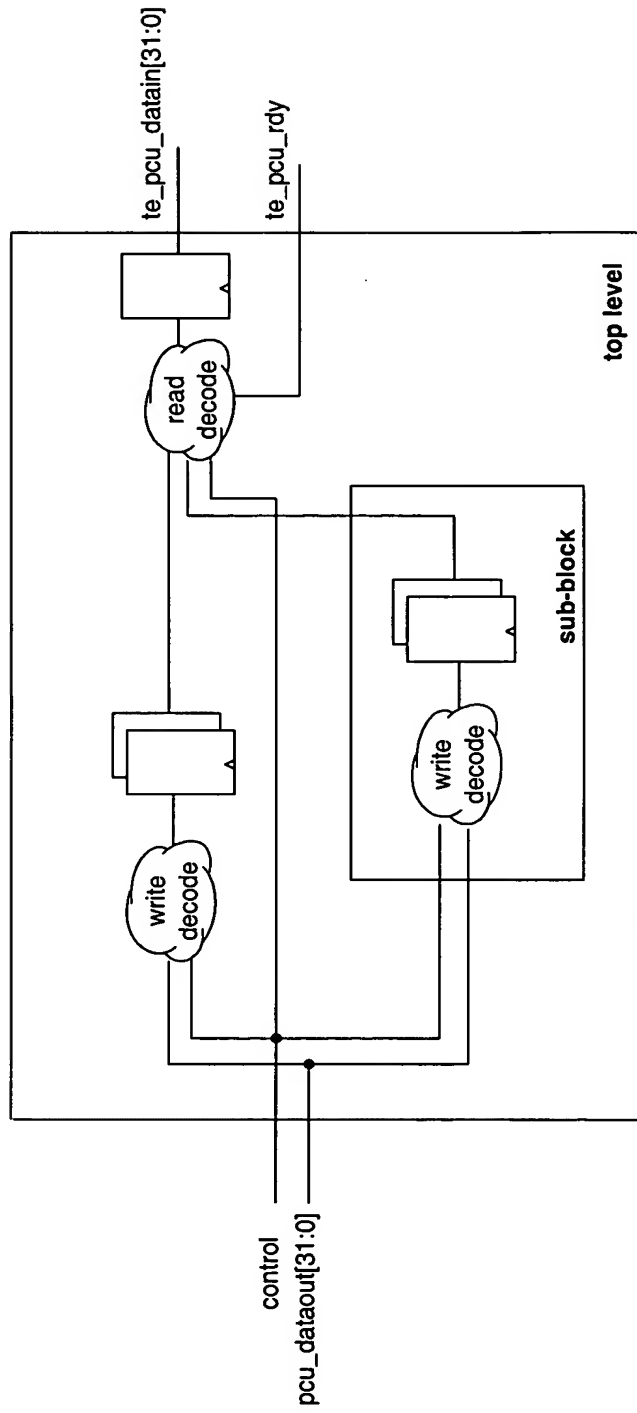


FIG. 189

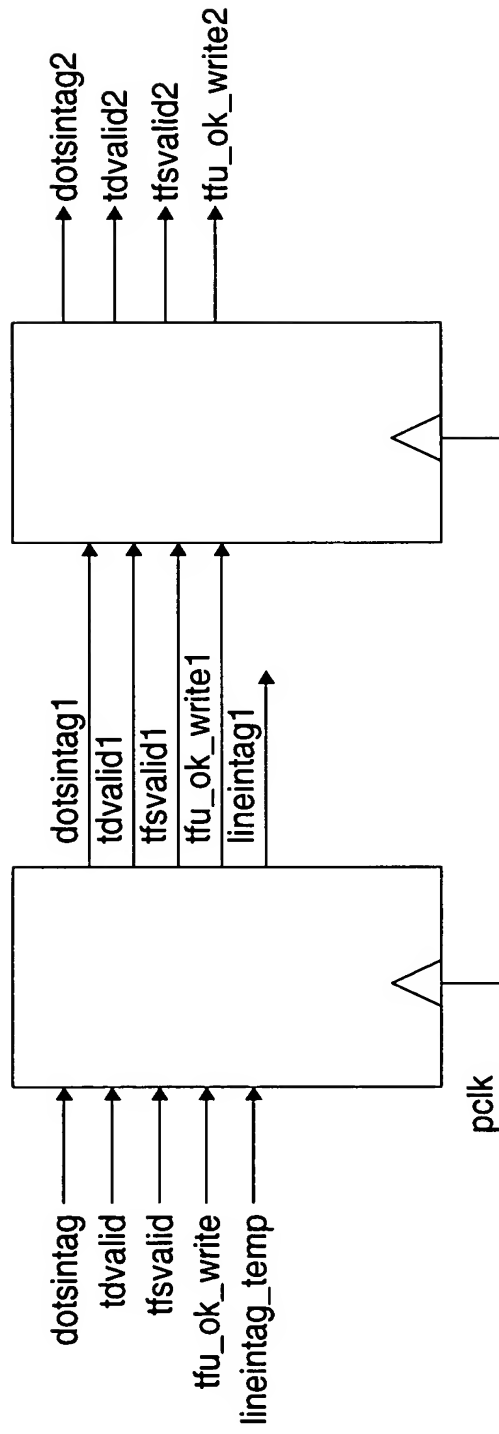


FIG. 191

164/331

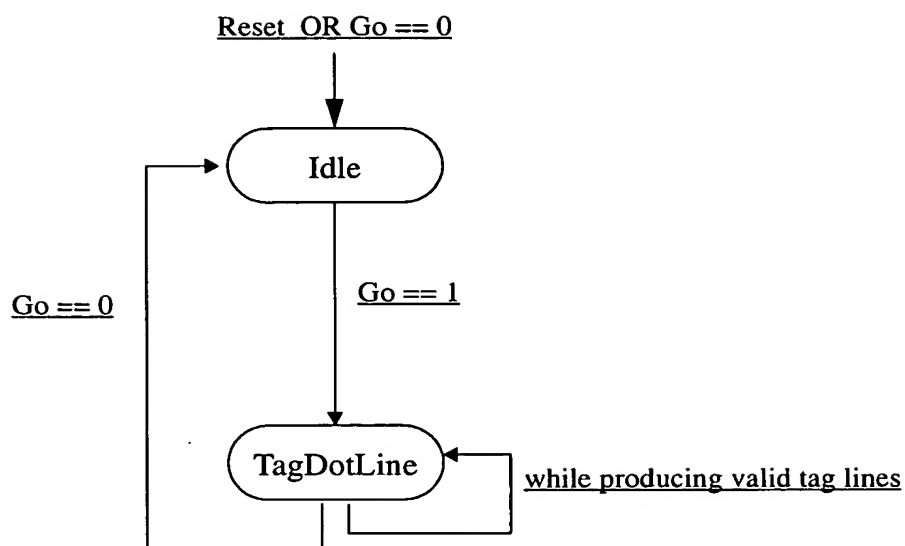


FIG. 190

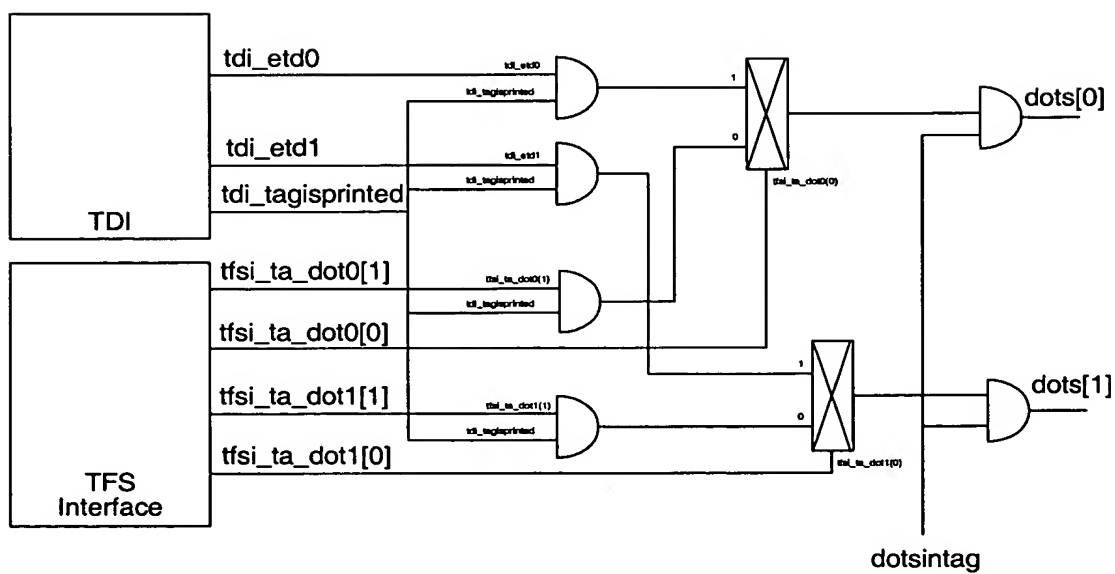


FIG. 192

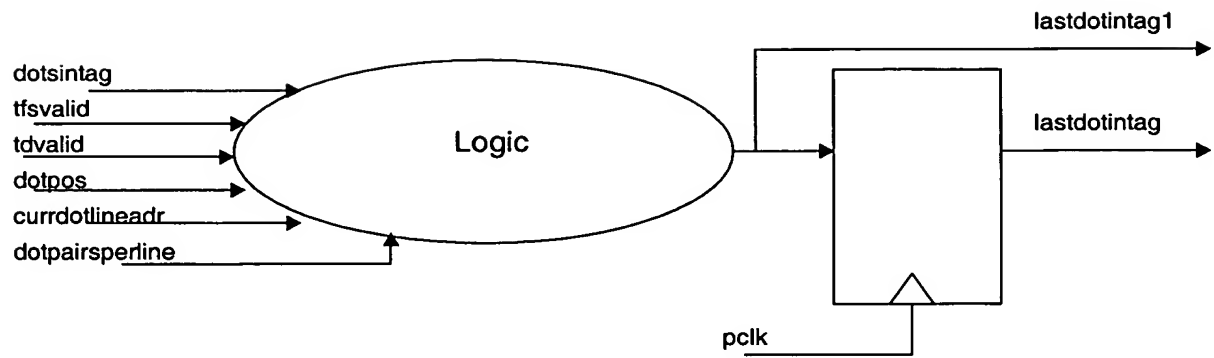


FIG. 193

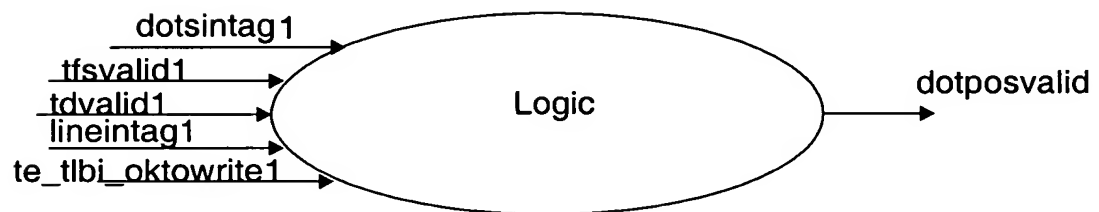


FIG. 194

166/331

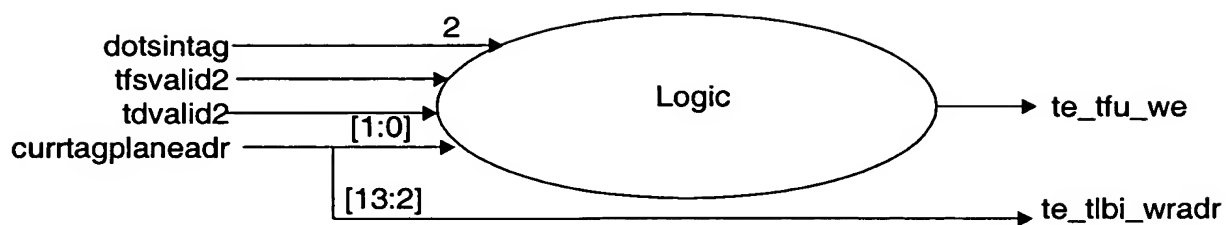


FIG. 195

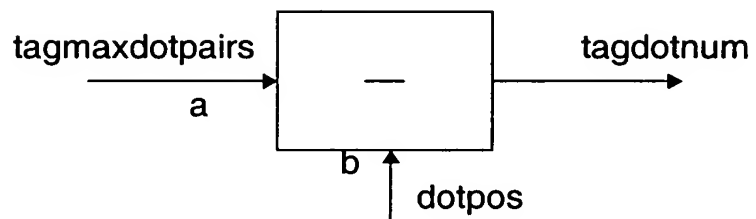


FIG. 196

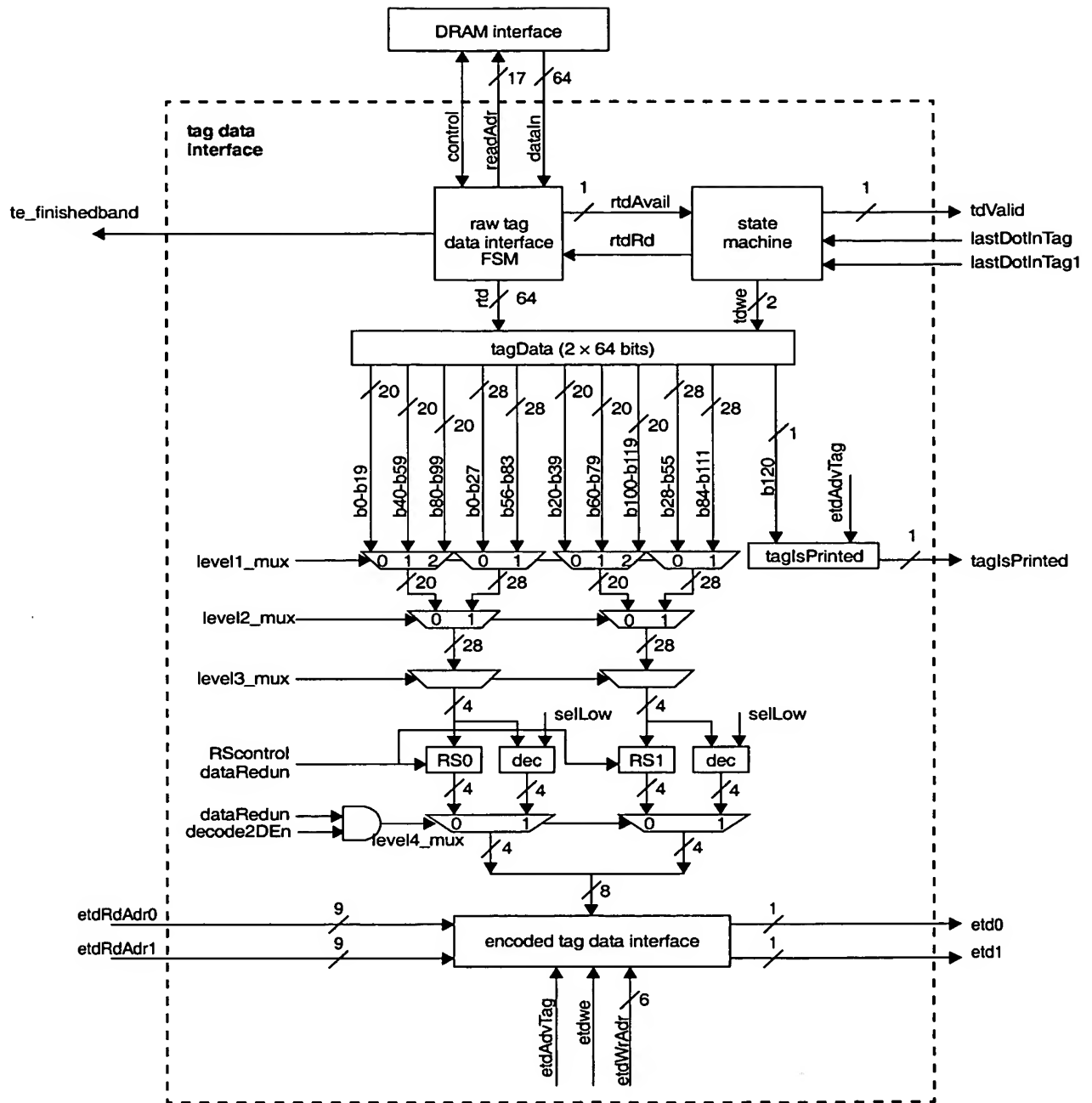


FIG. 197

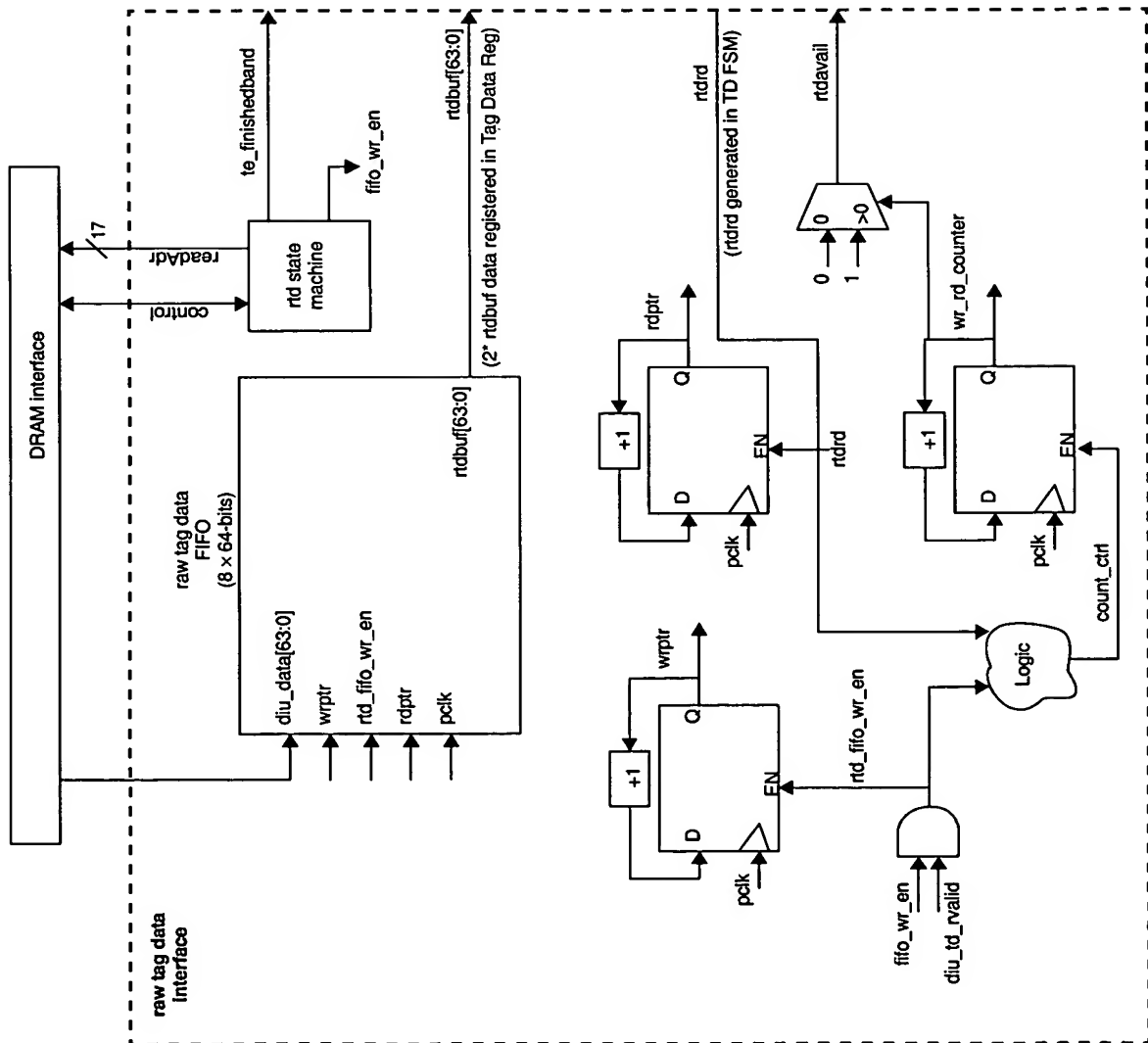


FIG. 199

170/331

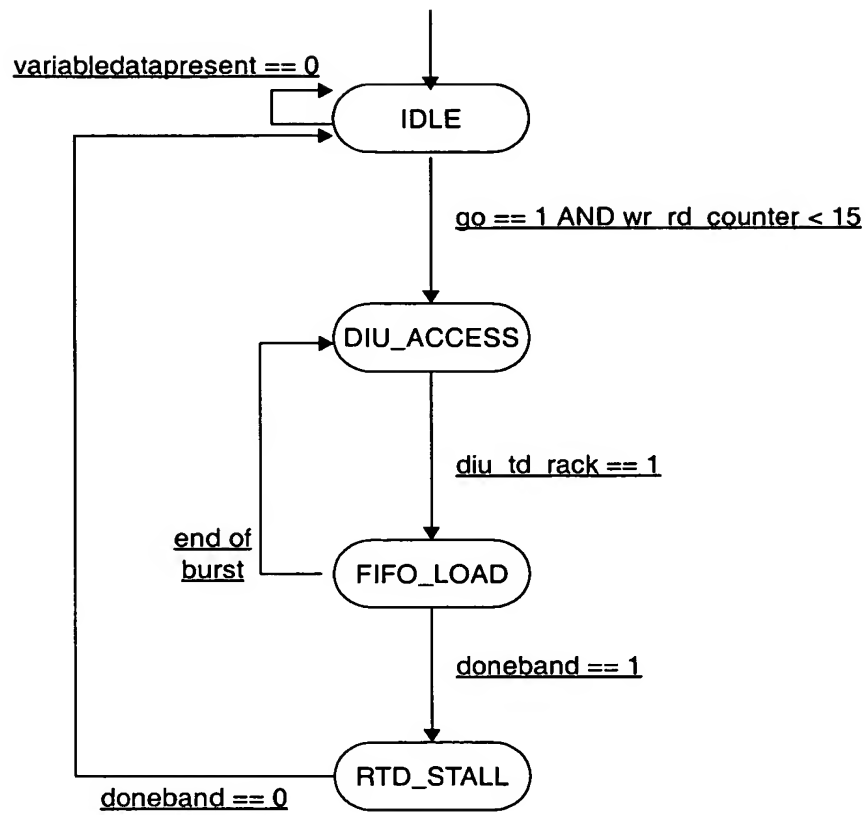


FIG. 200

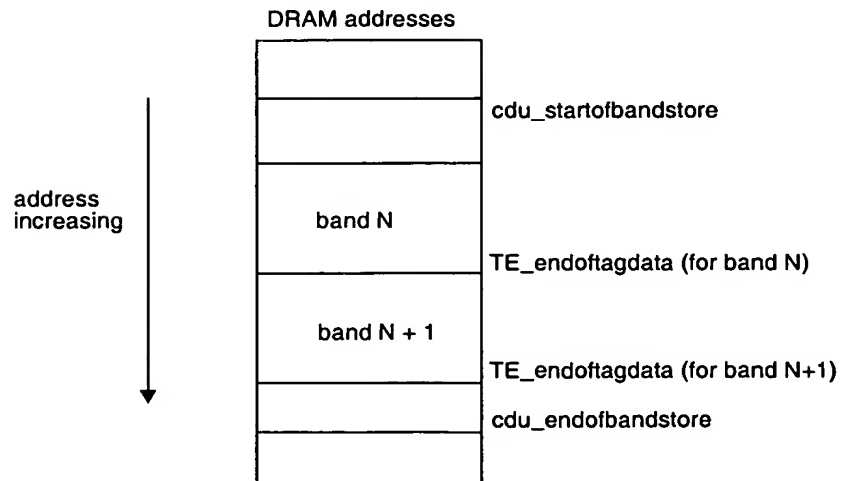


FIG. 201

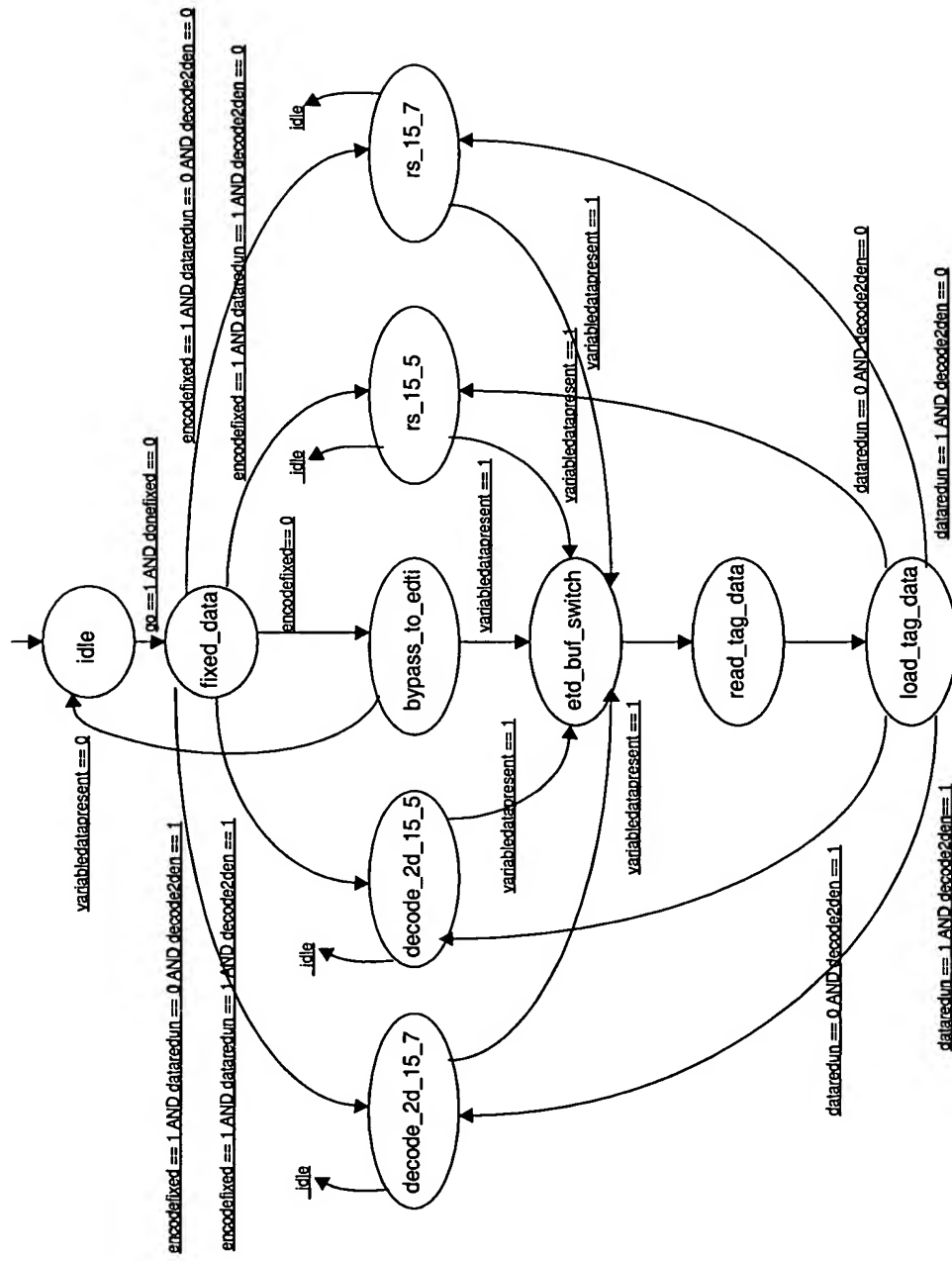
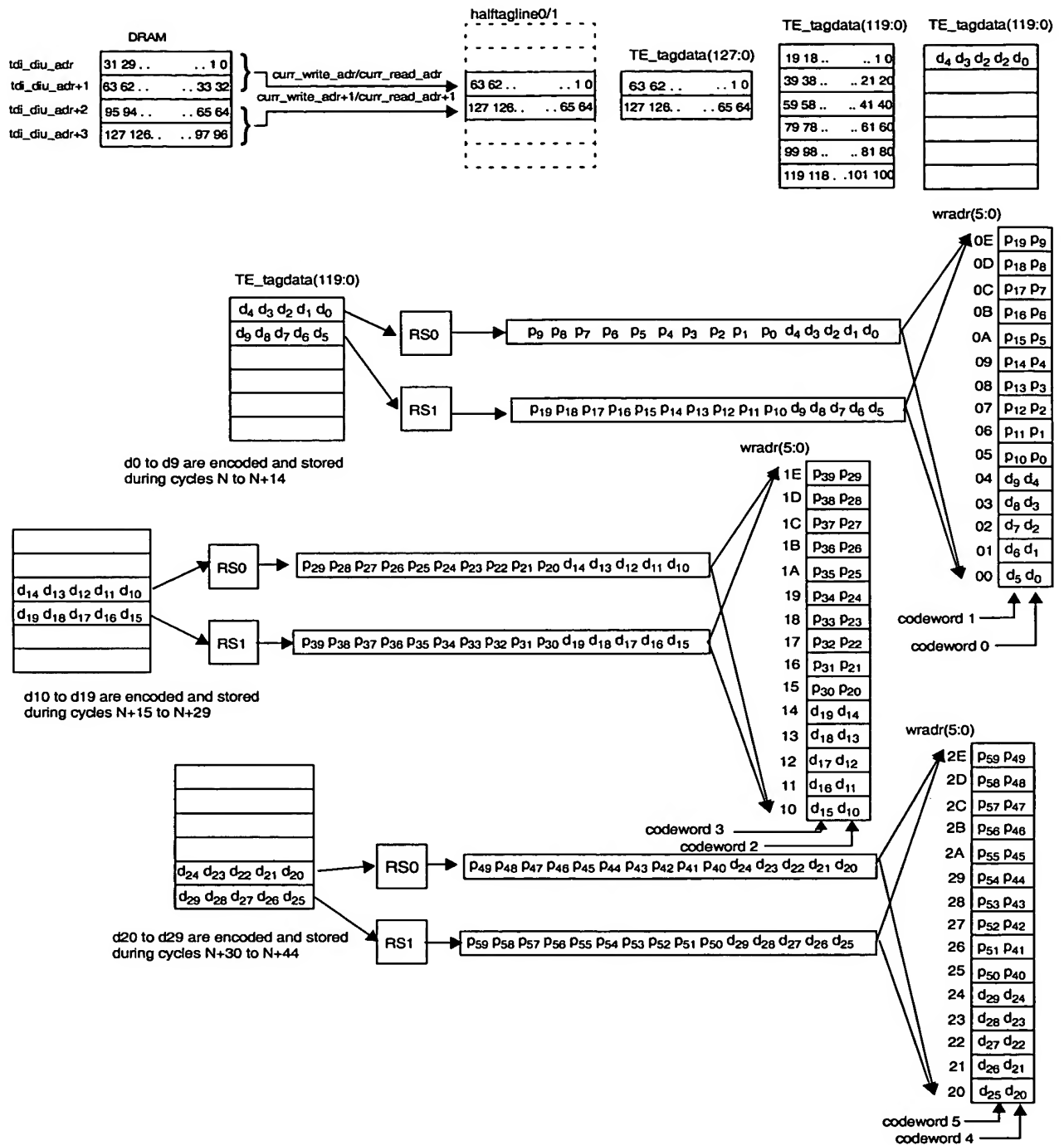


FIG. 202



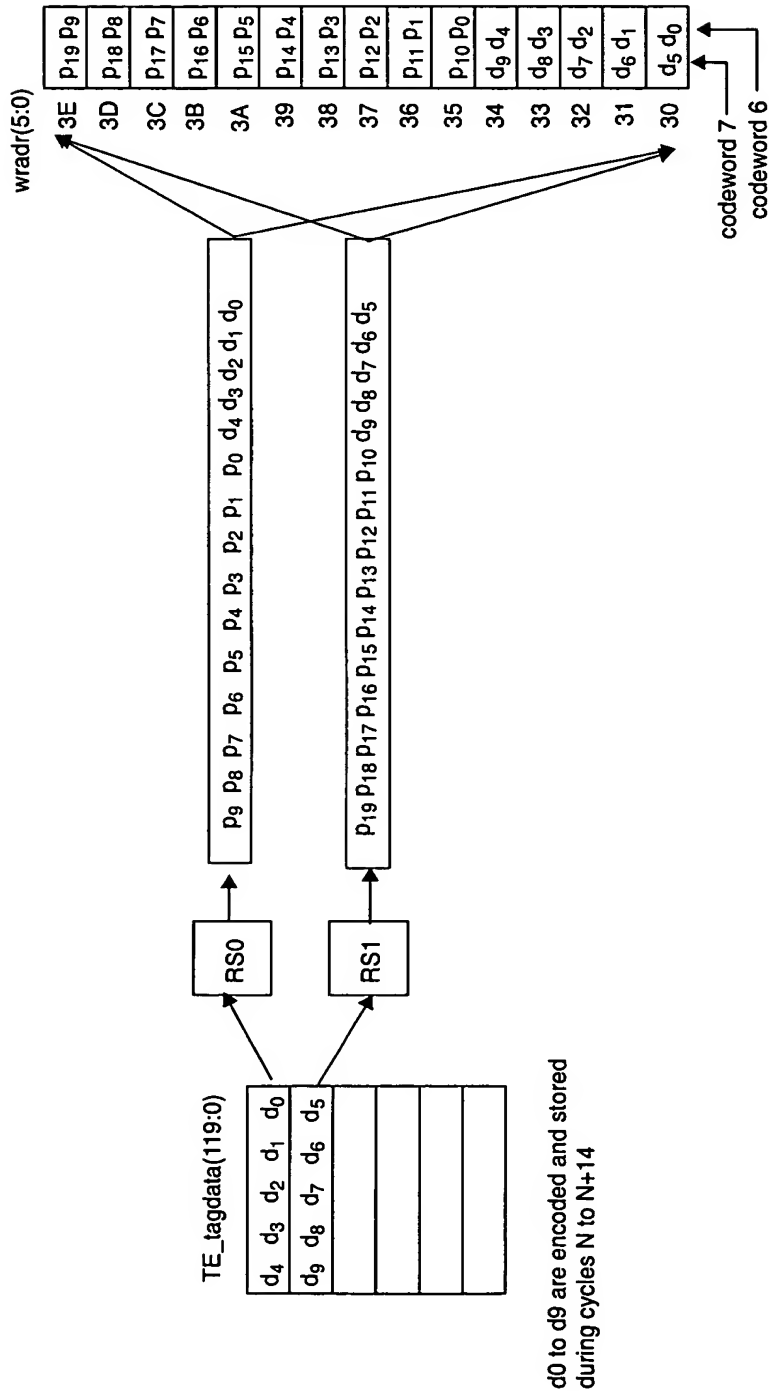


FIG. 204

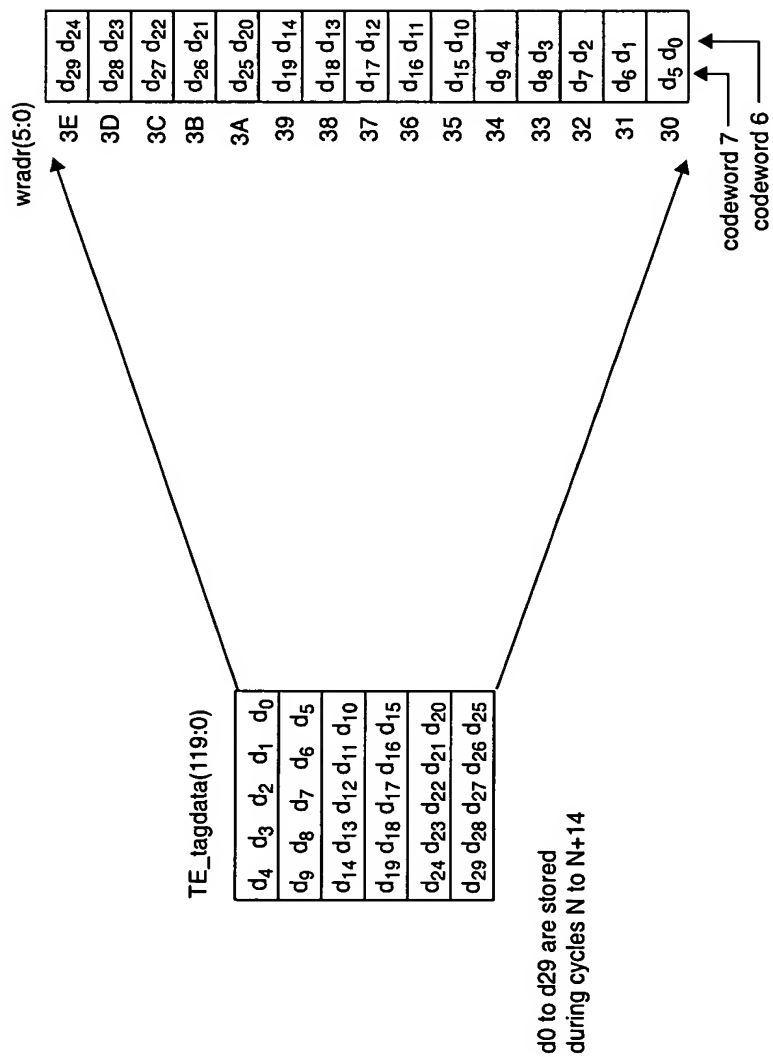


FIG. 205

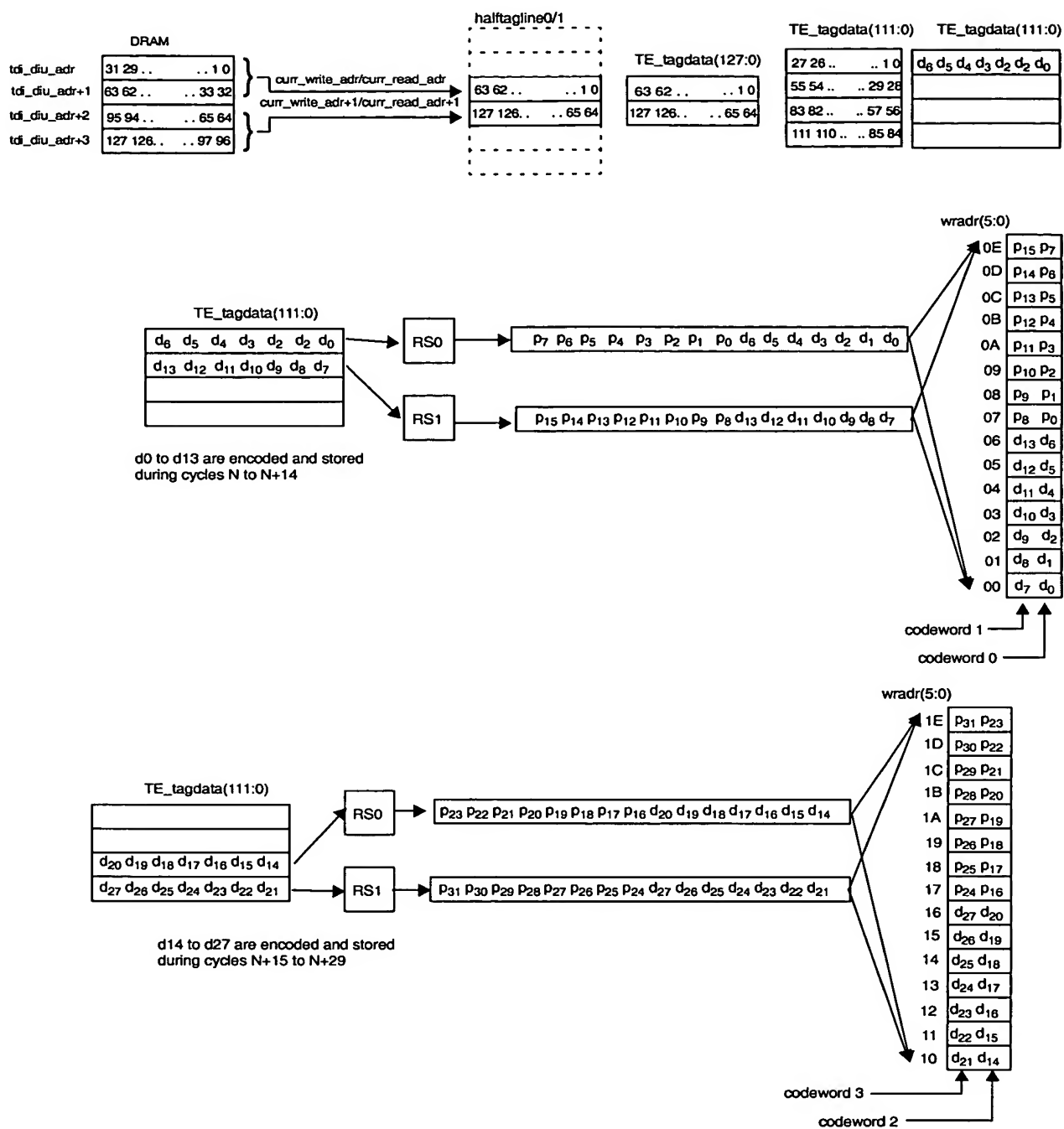


FIG. 206

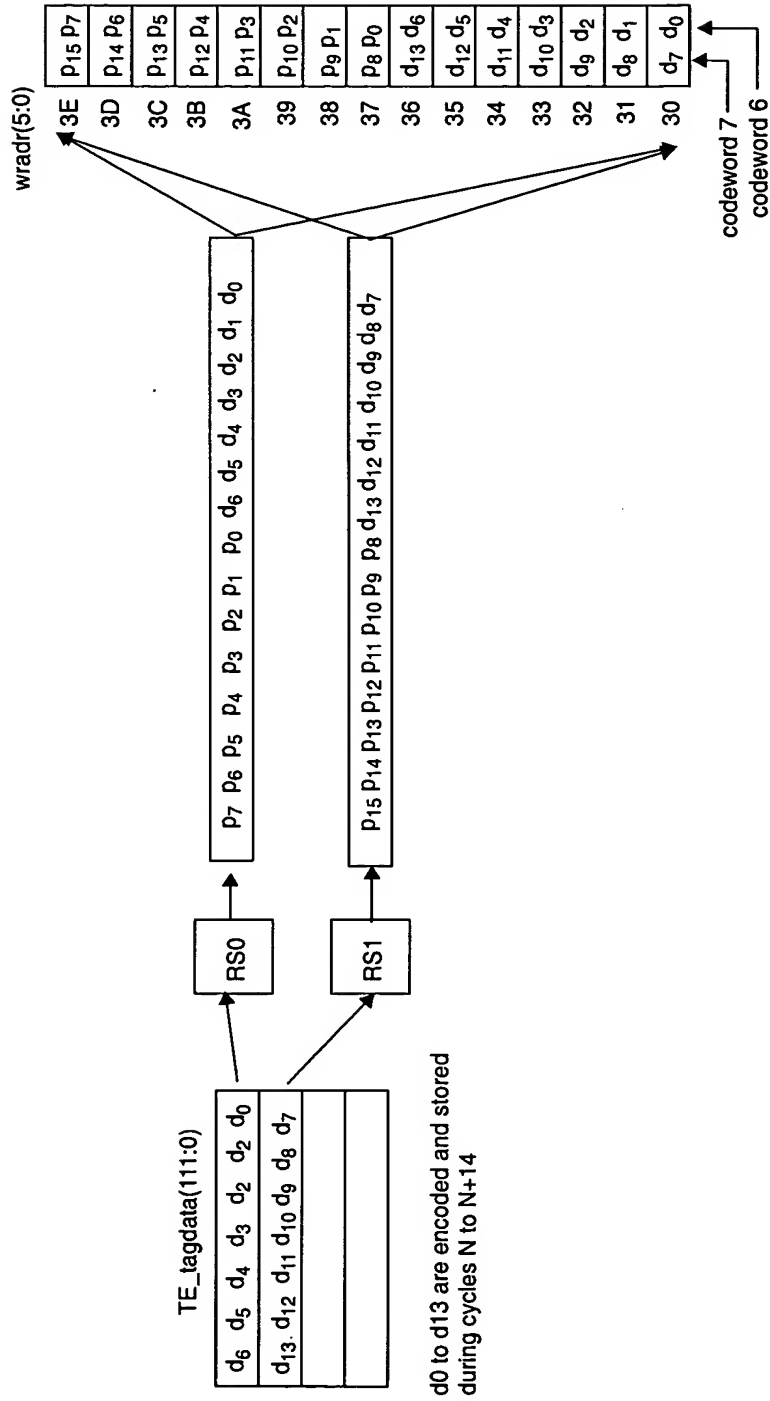


FIG. 207

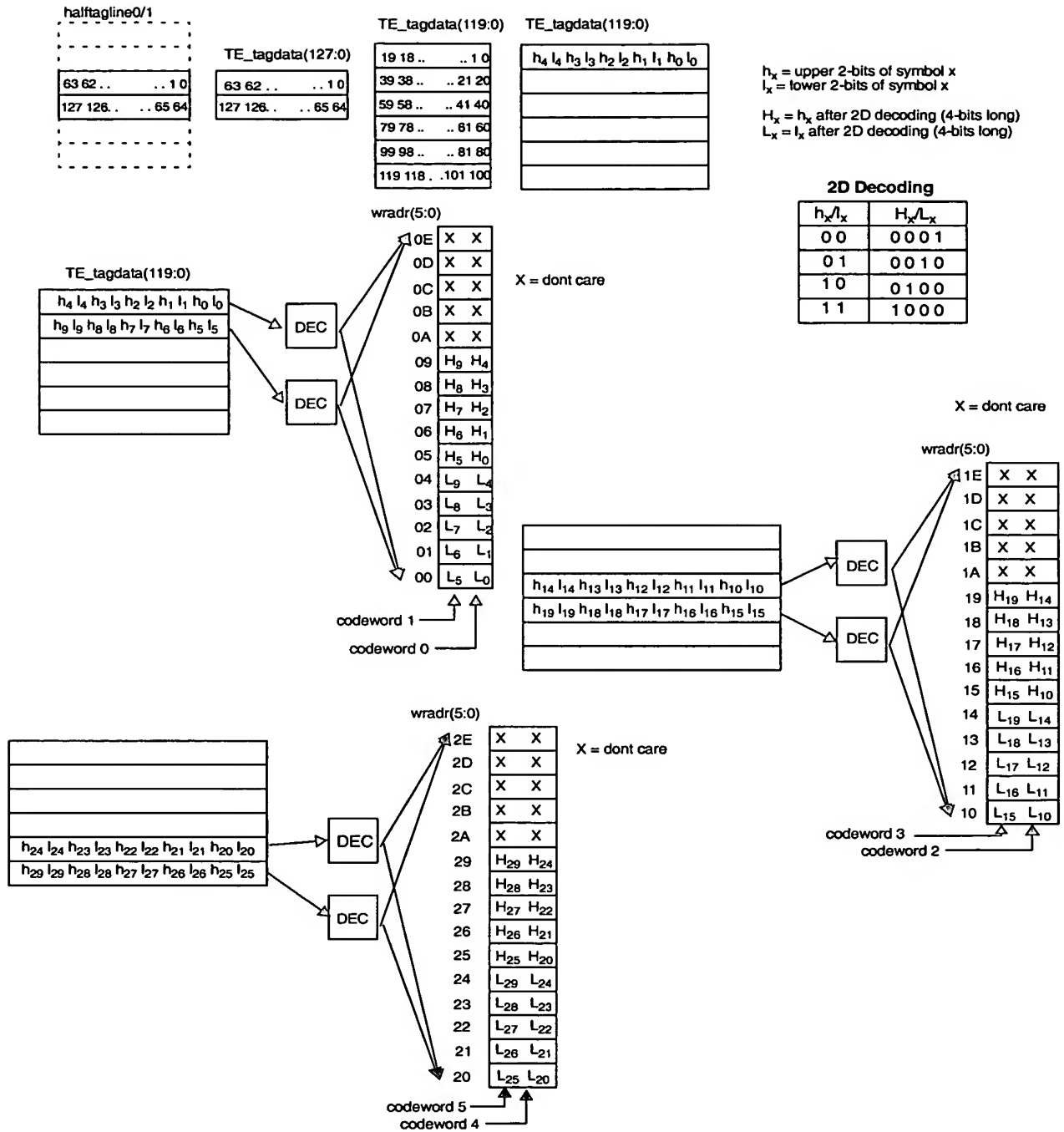


FIG. 208

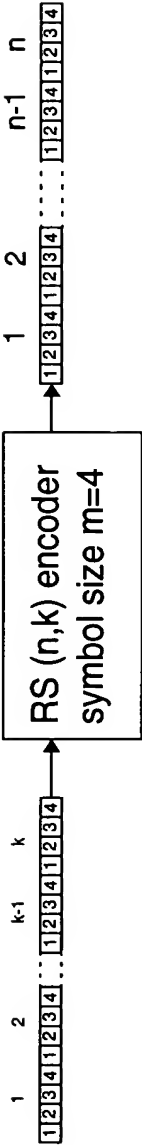


FIG. 209

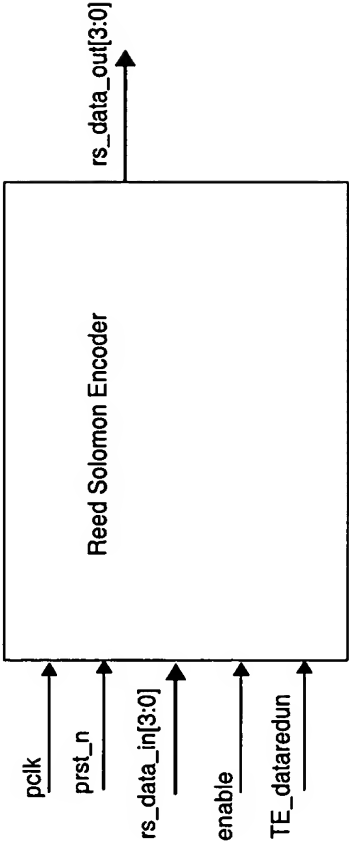


FIG. 210

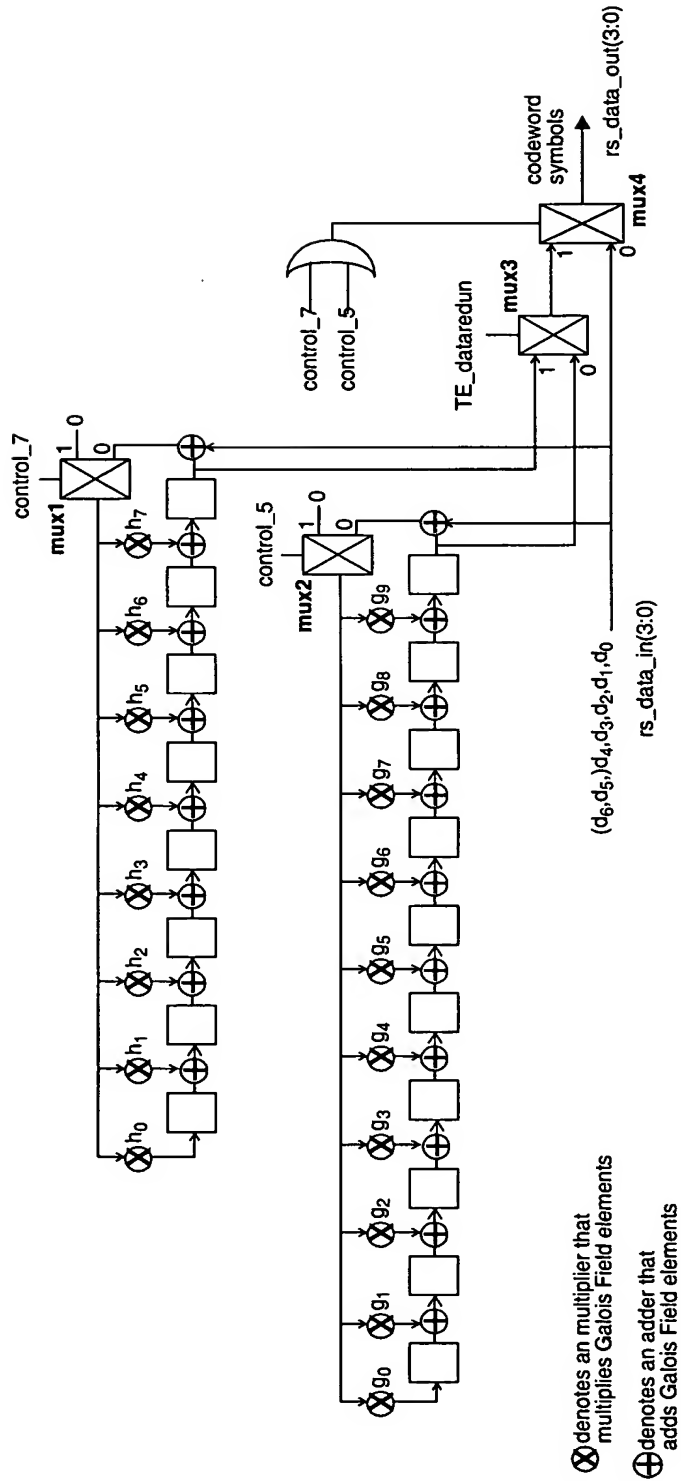


FIG. 211

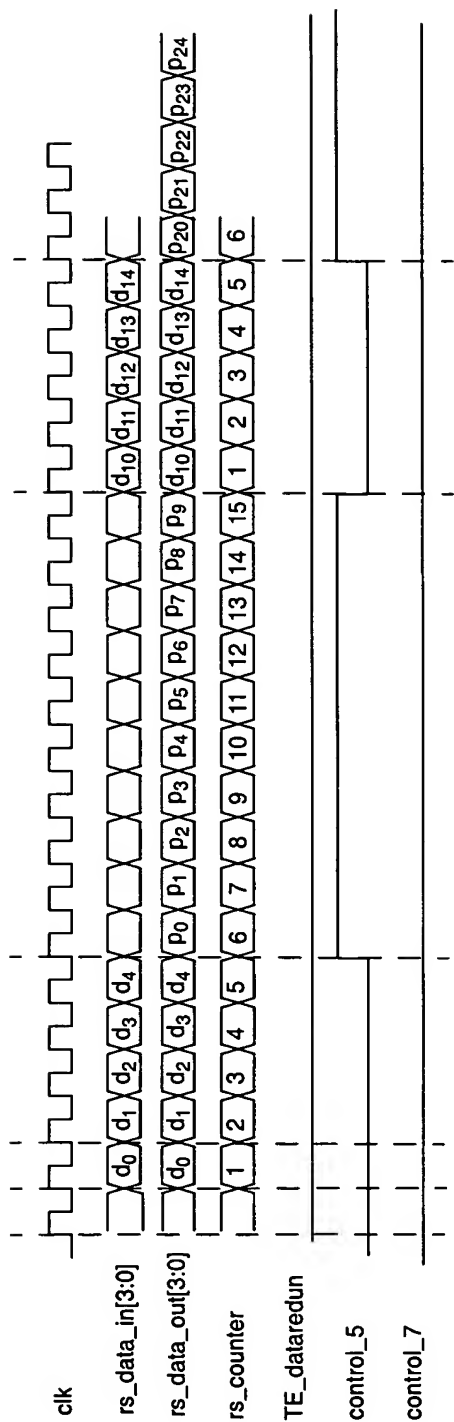


FIG. 212

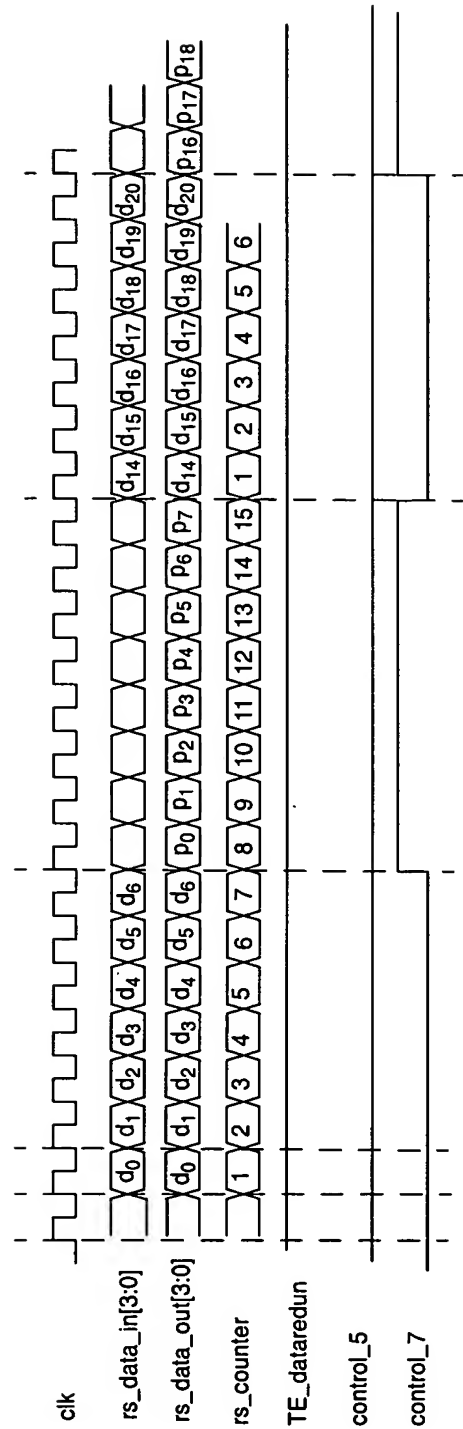


FIG. 213

182/331

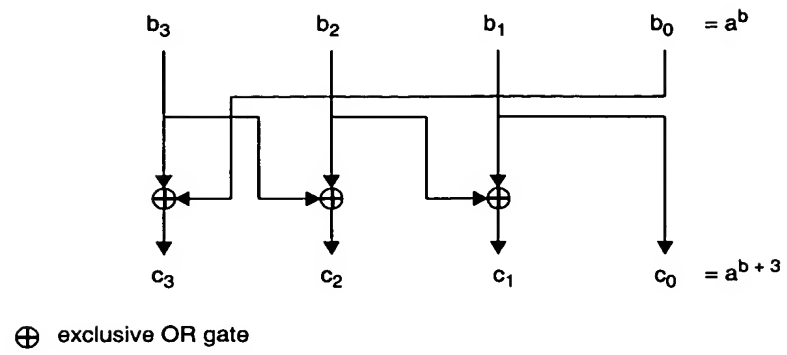


FIG. 214

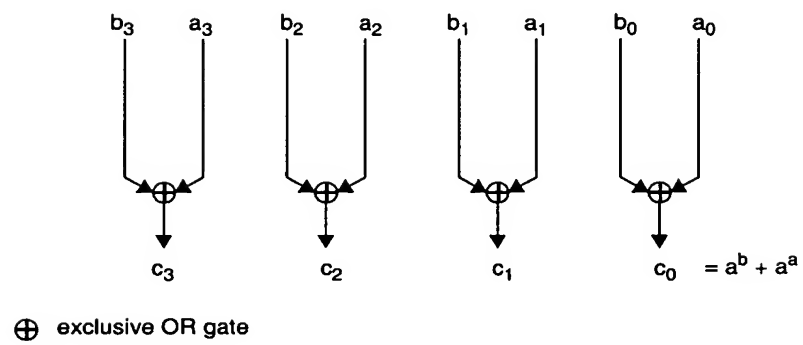


FIG. 215

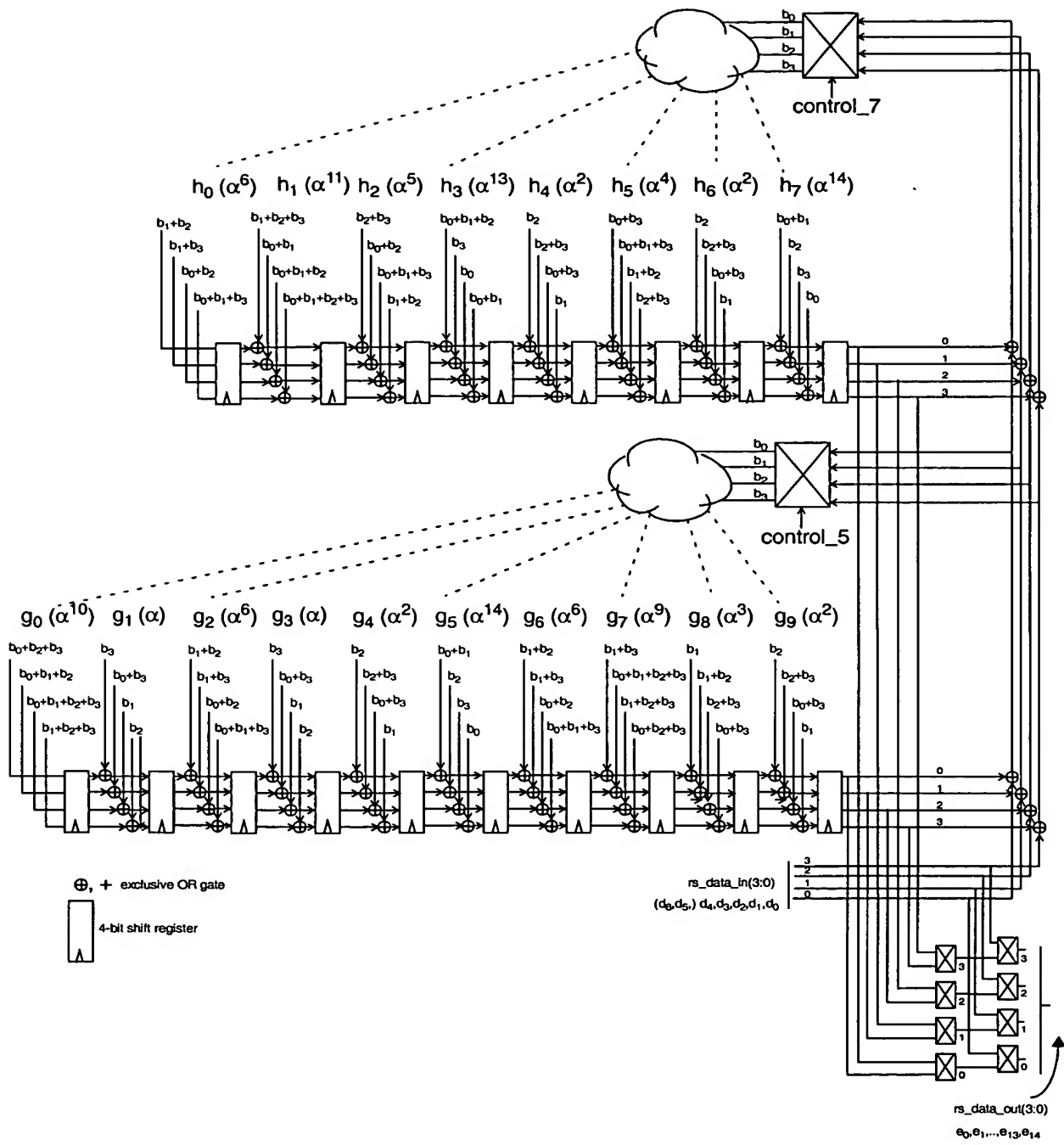


FIG. 216

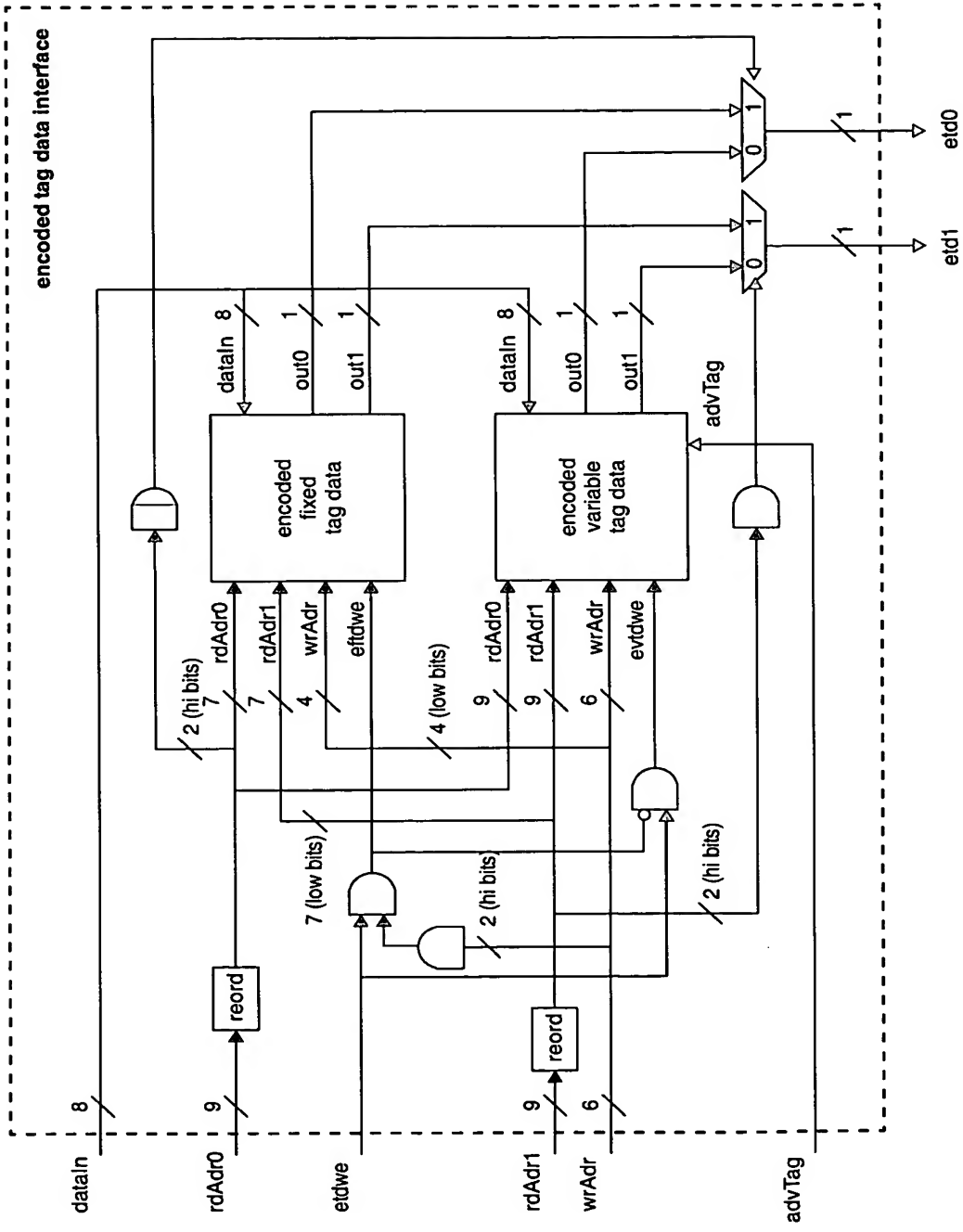


FIG. 217

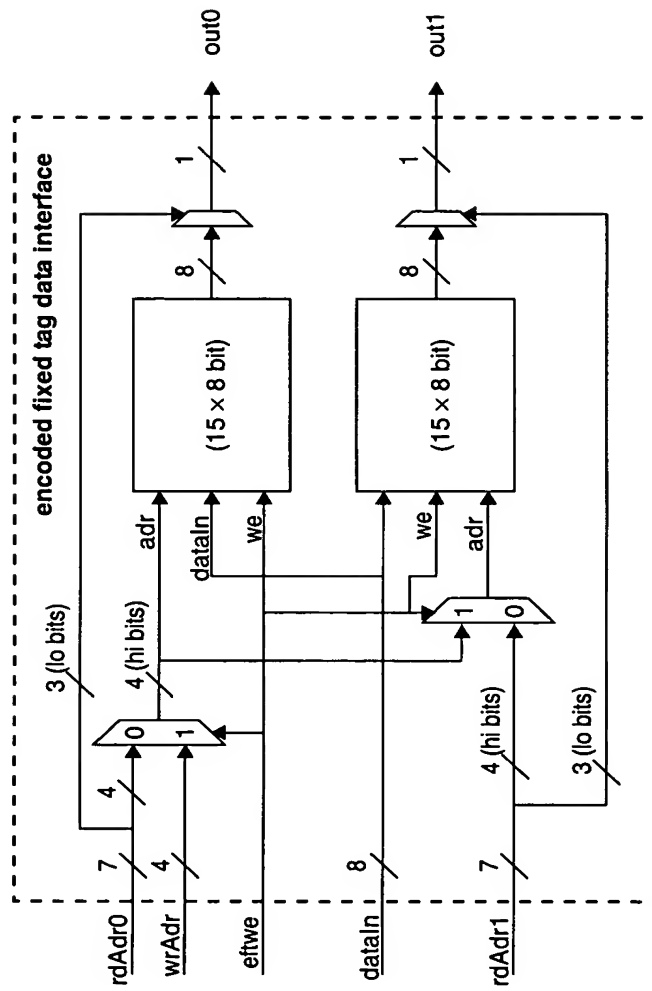


FIG. 218

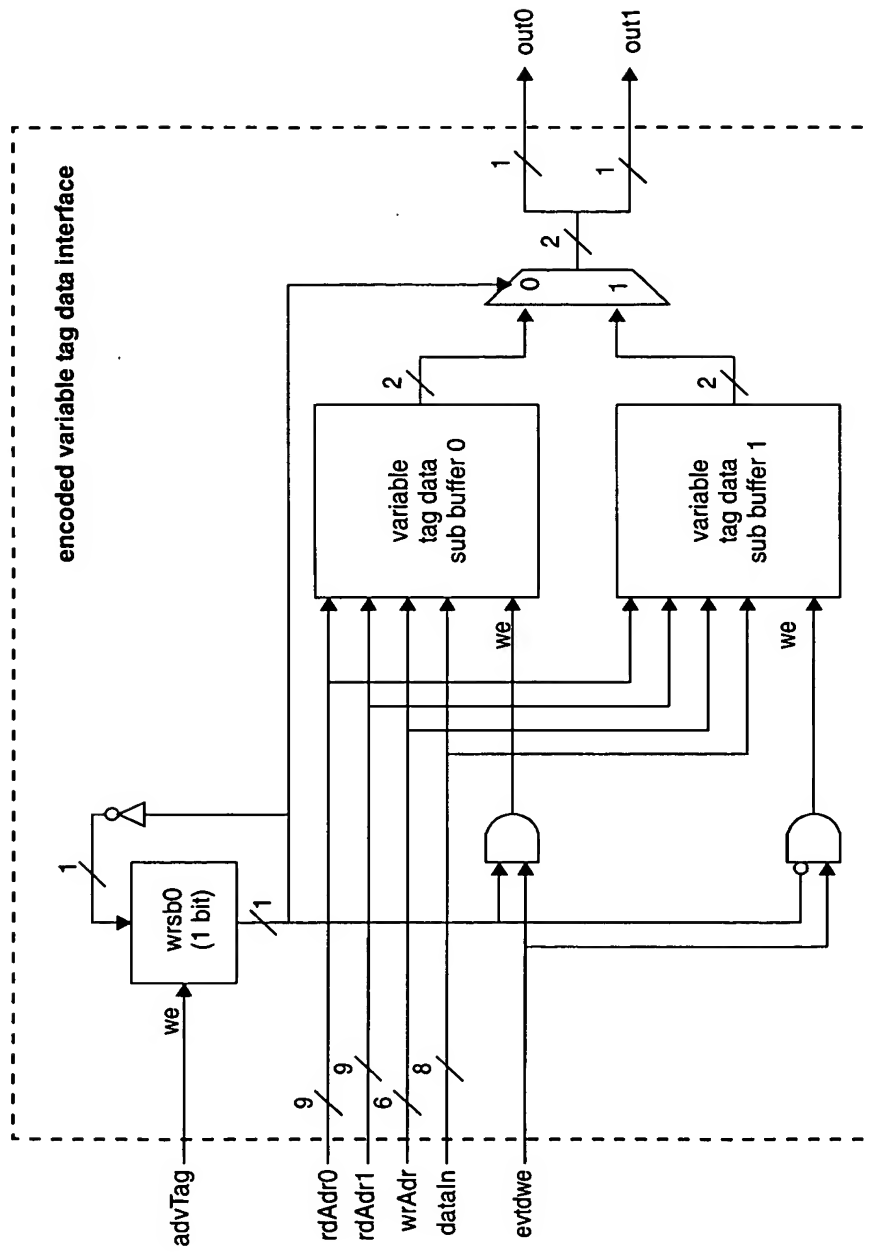


FIG. 219

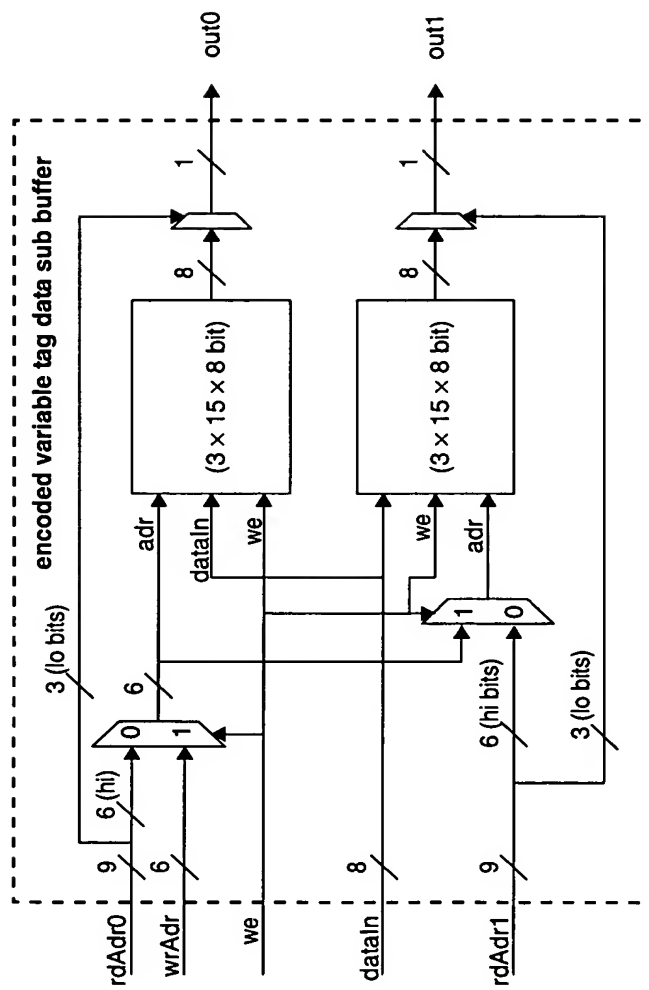


FIG. 220

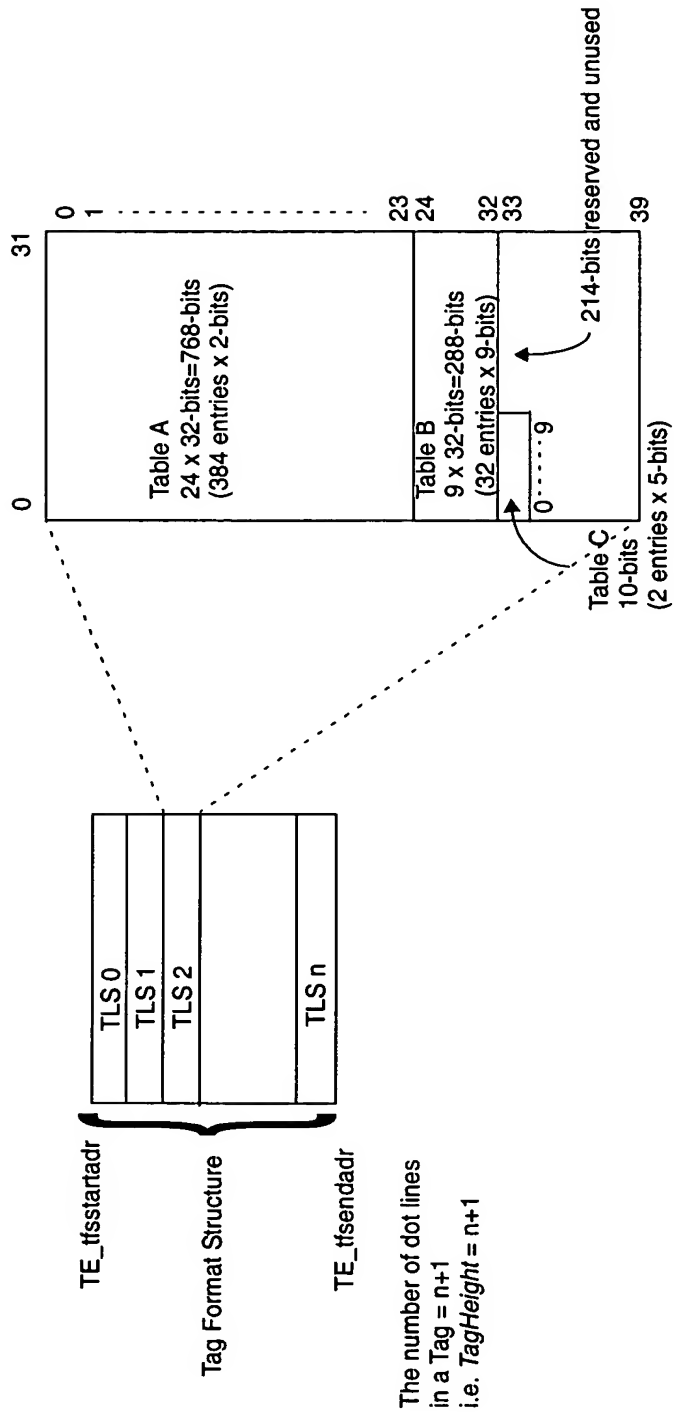


FIG. 221

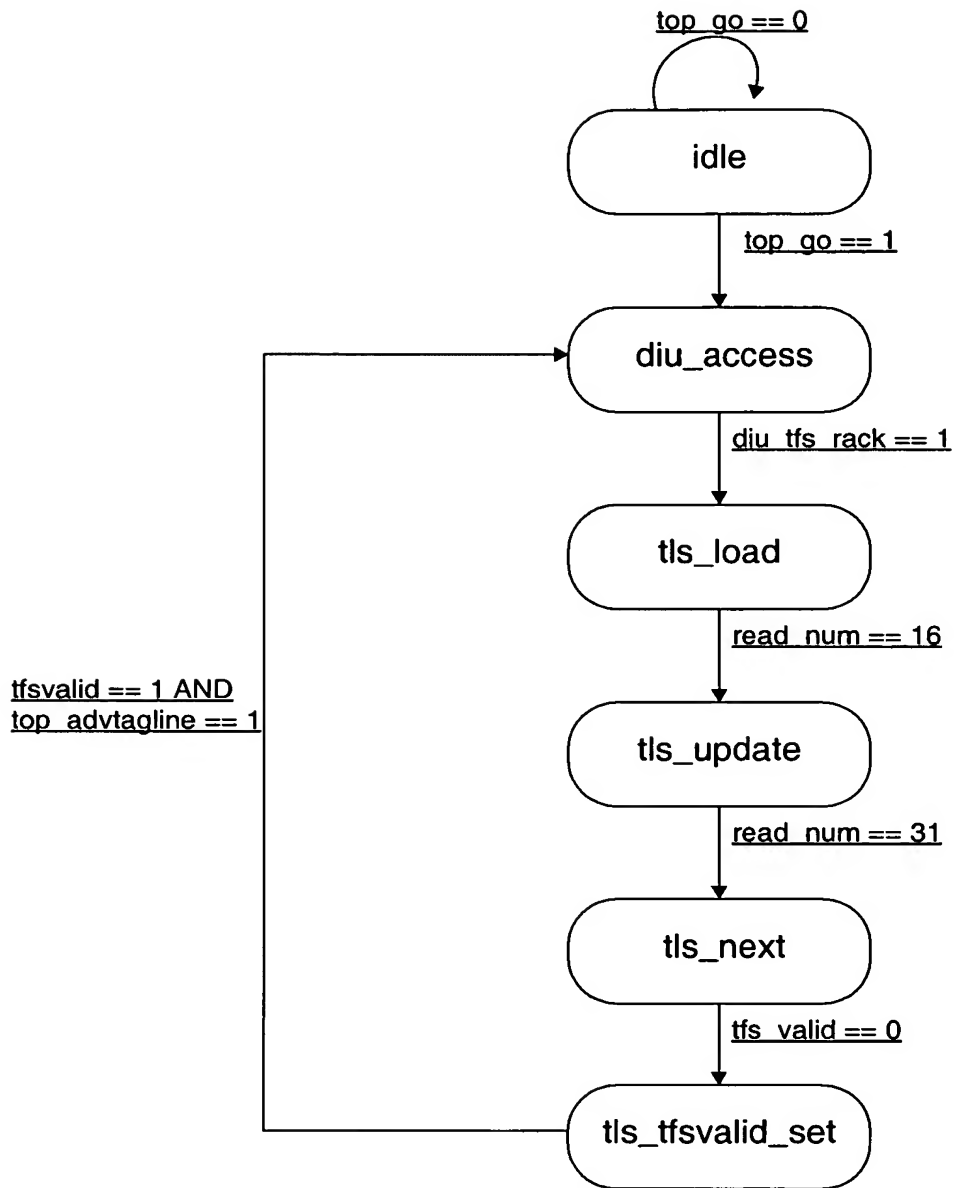


FIG. 222

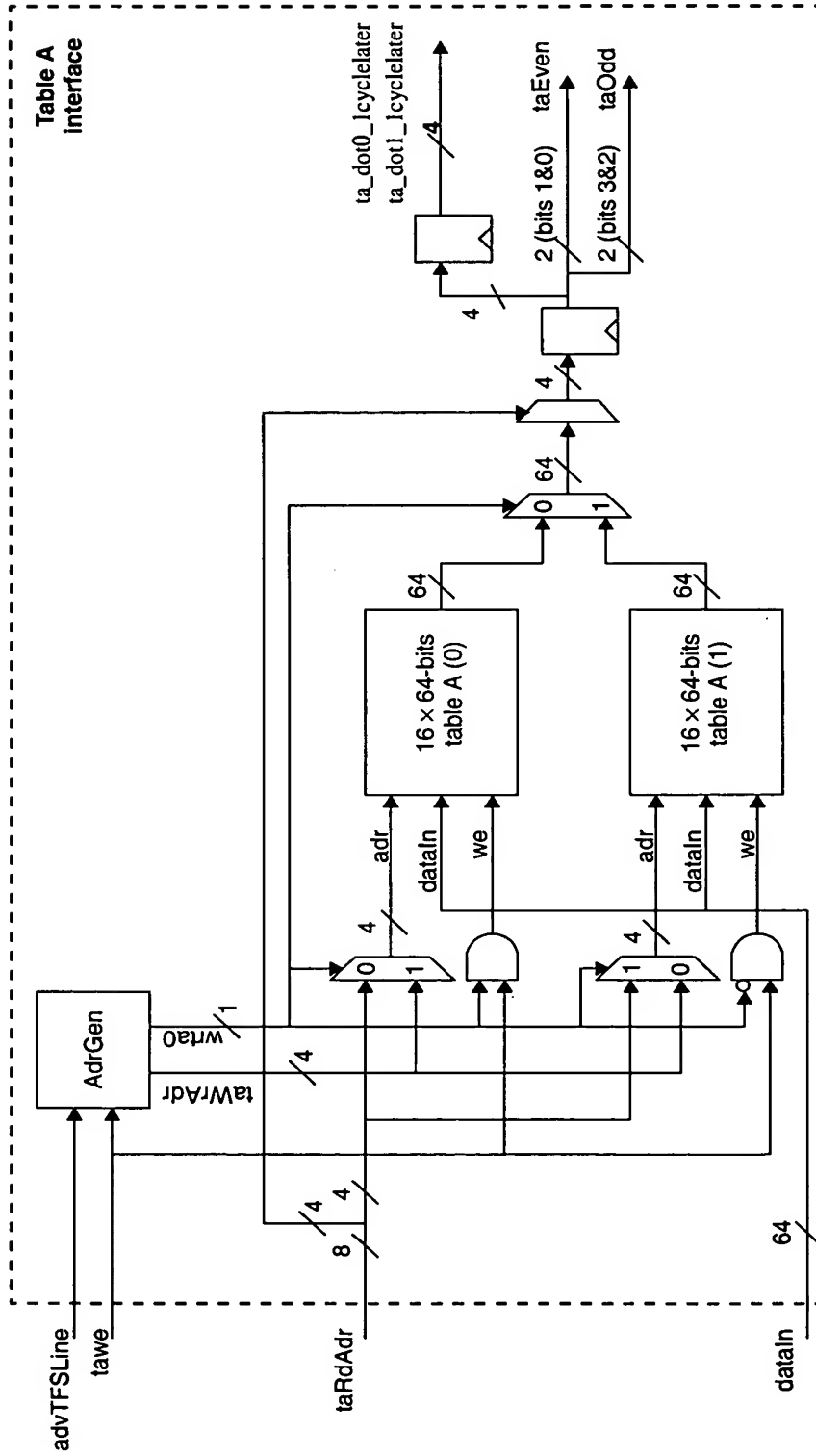


FIG. 224

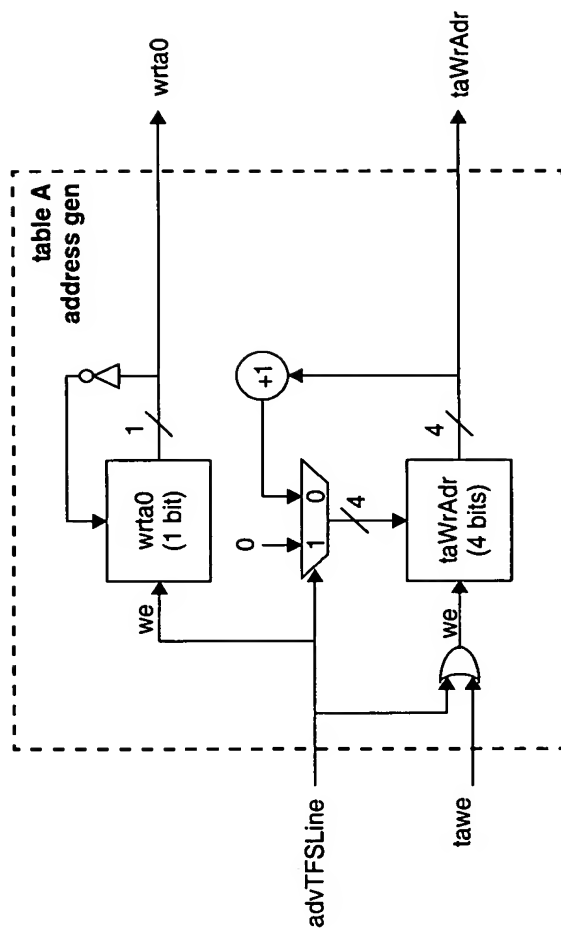


FIG. 225

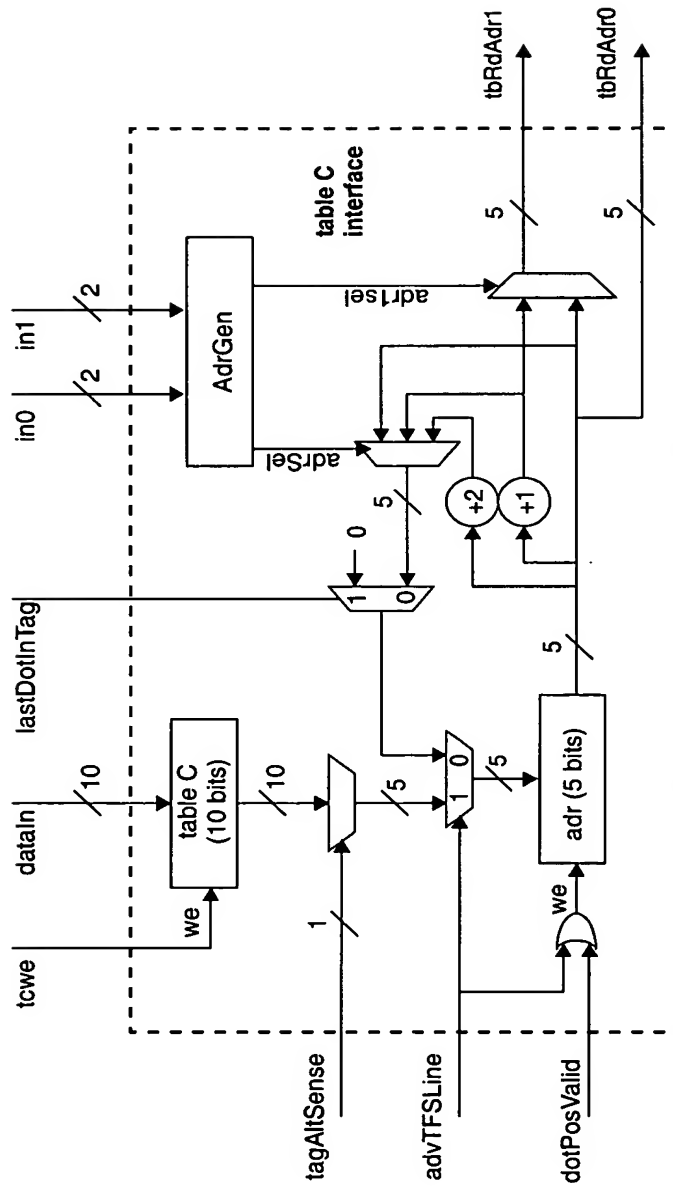


FIG. 226

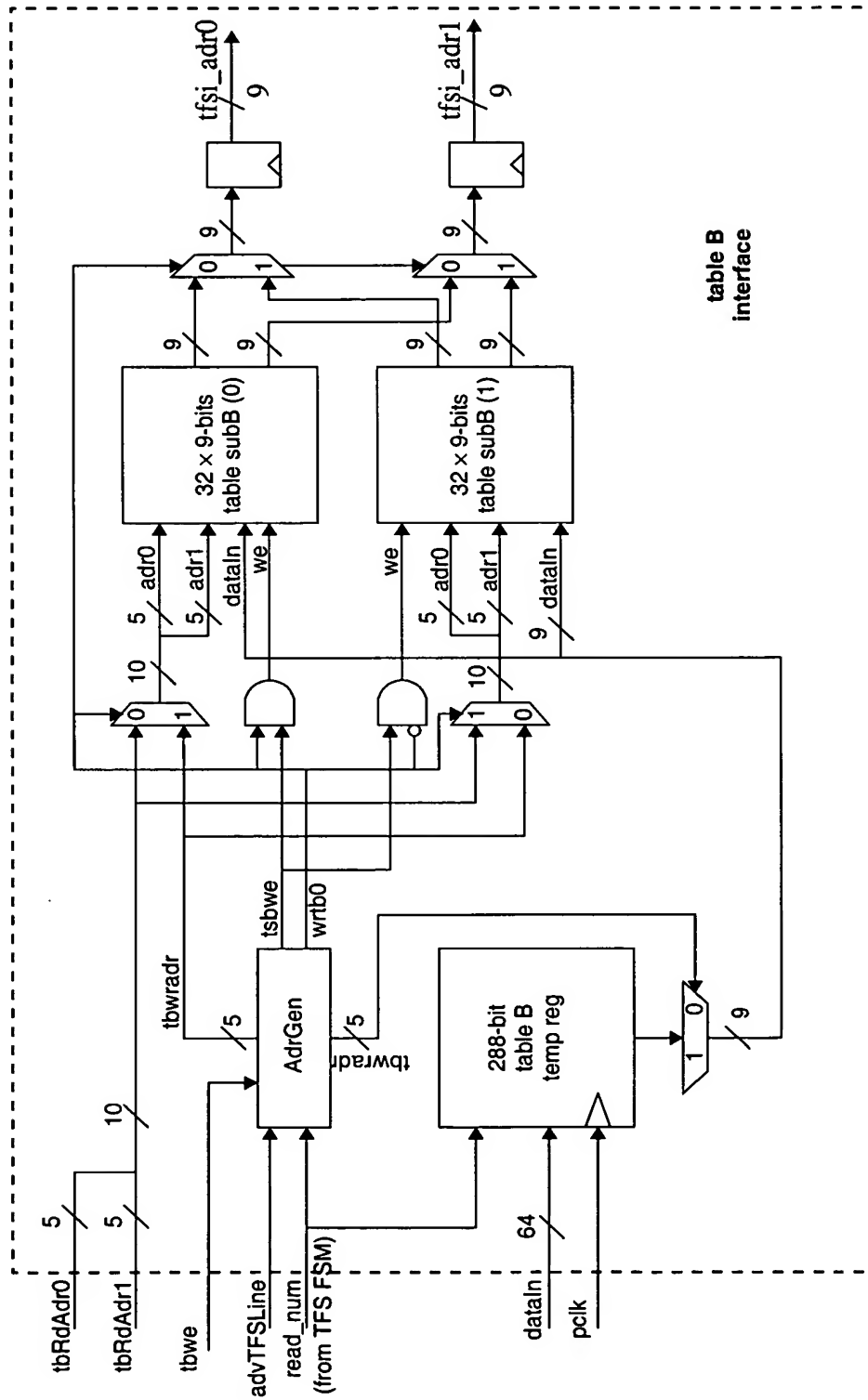


FIG. 227

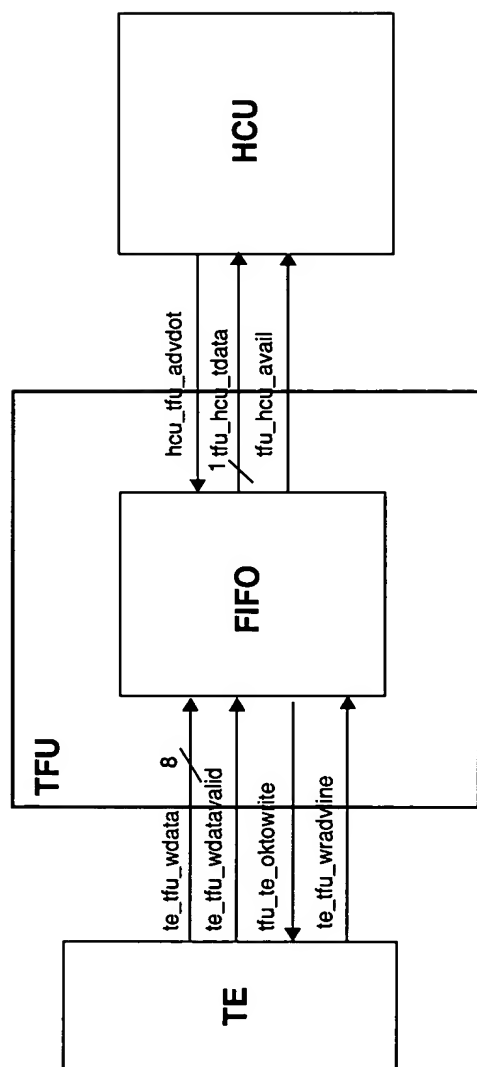


FIG. 228

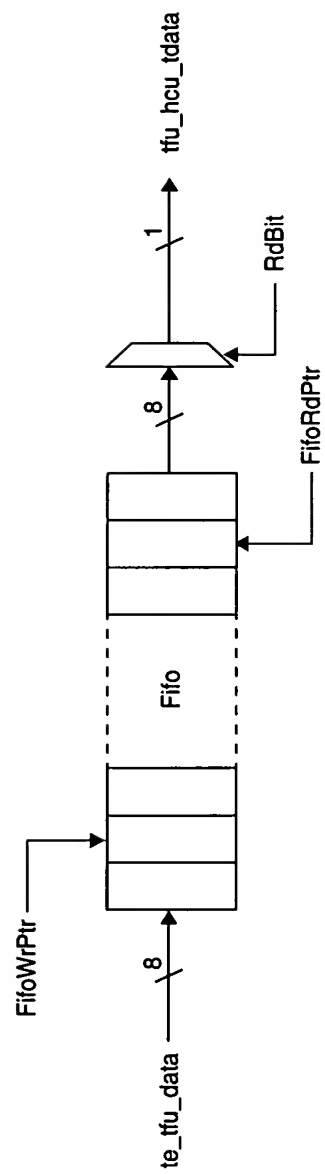


FIG. 229

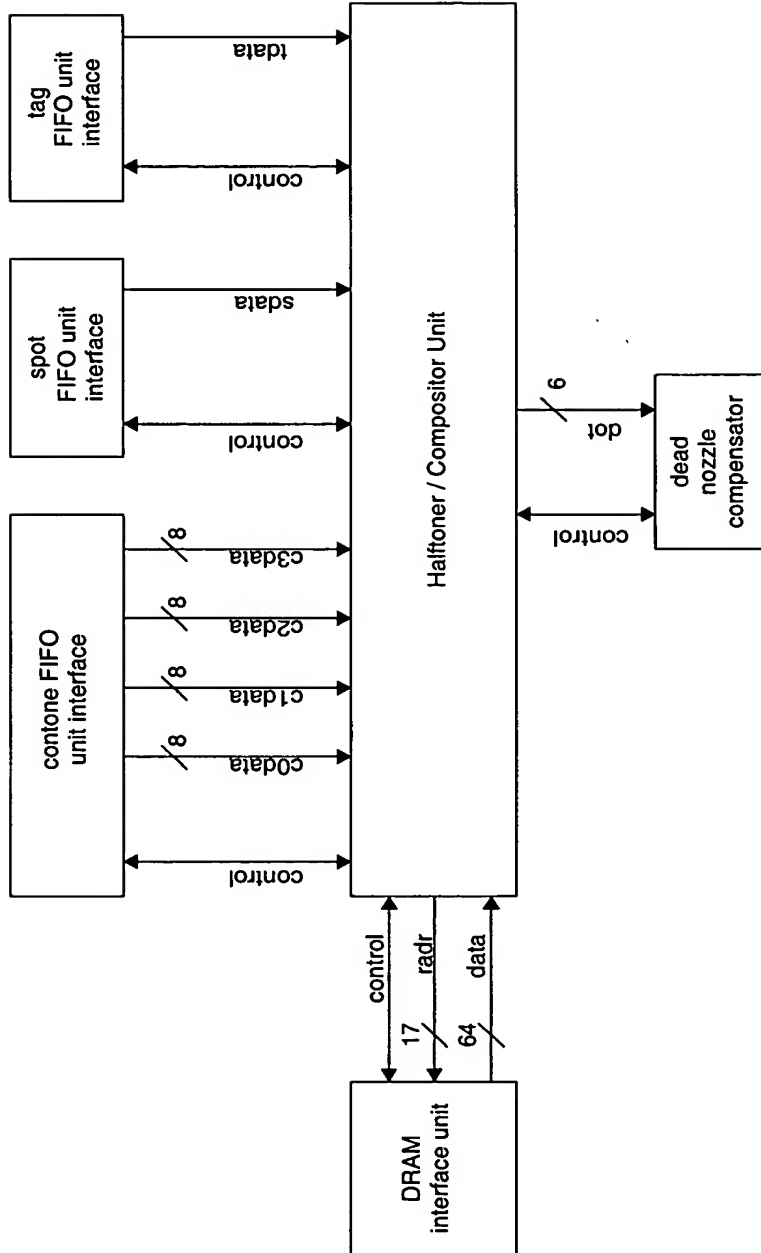


FIG. 230

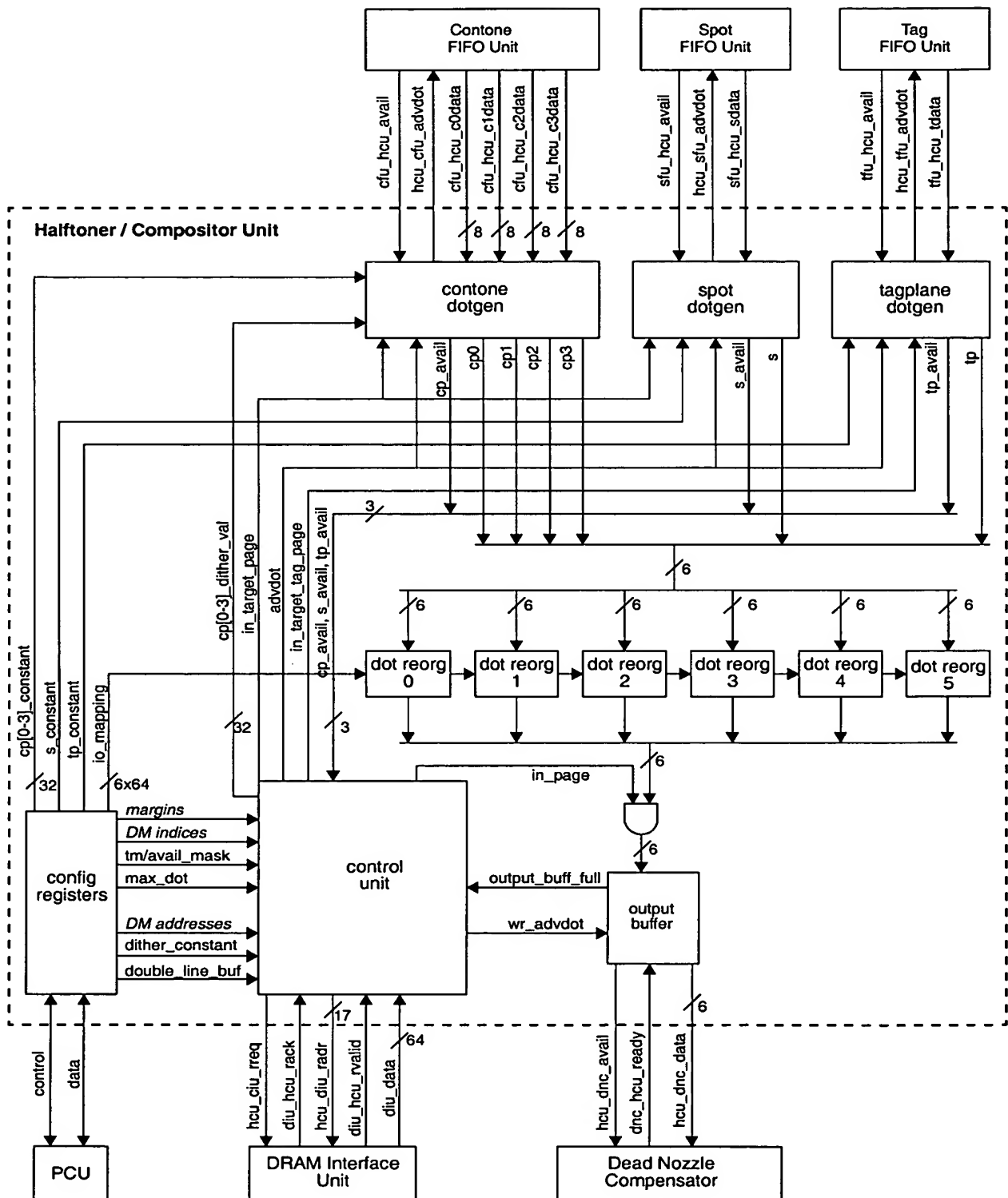


FIG. 231

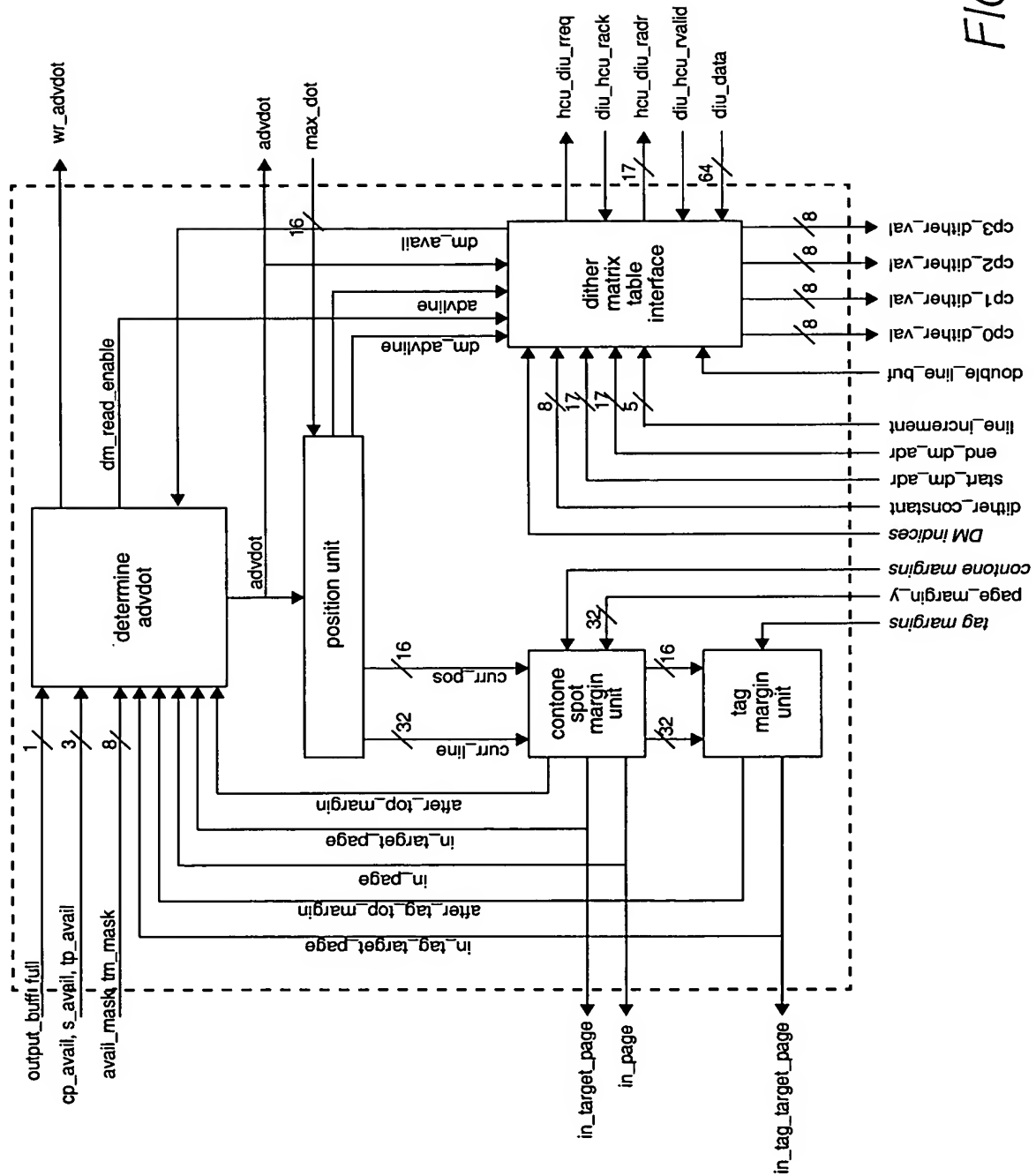
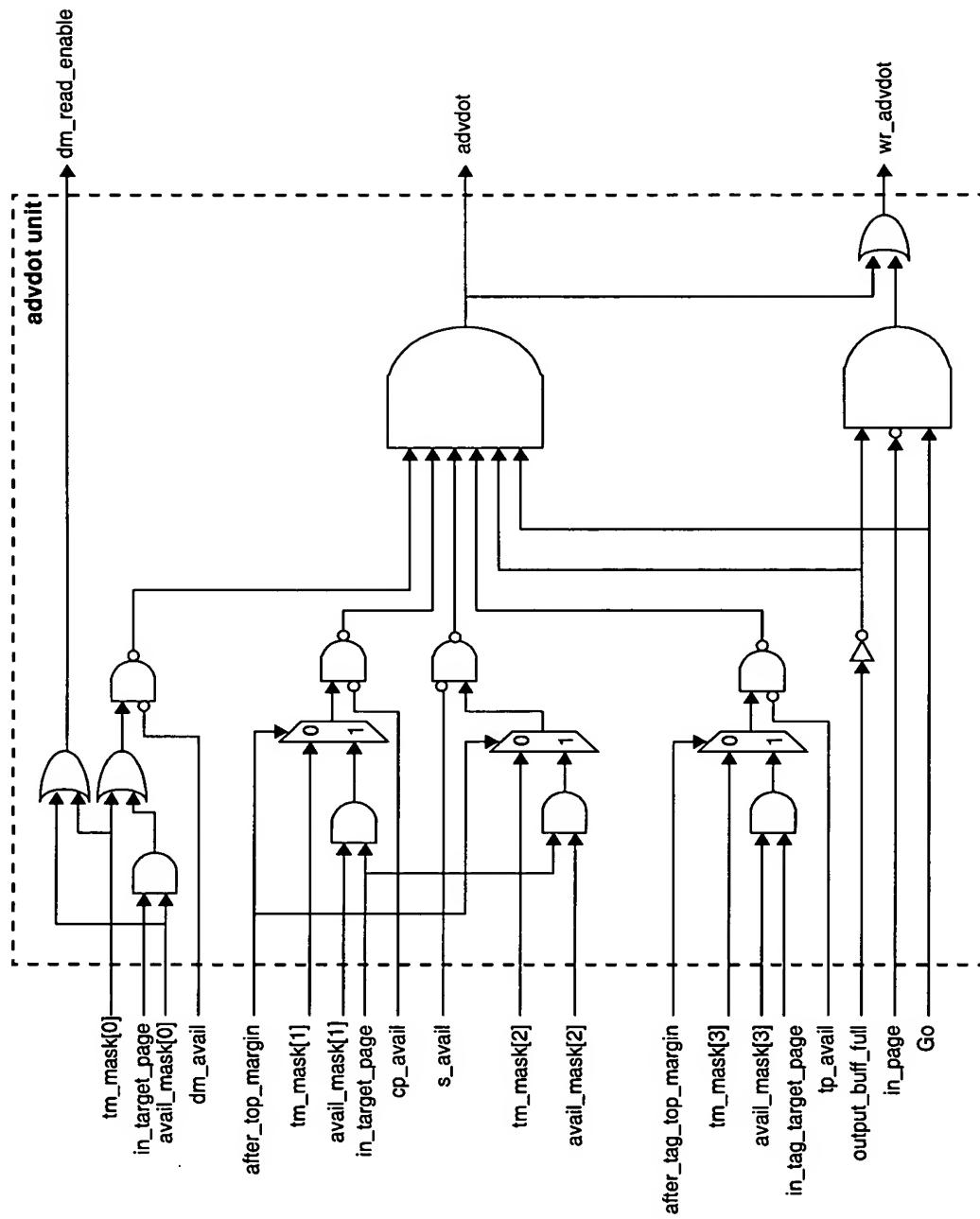


FIG. 232



200/331

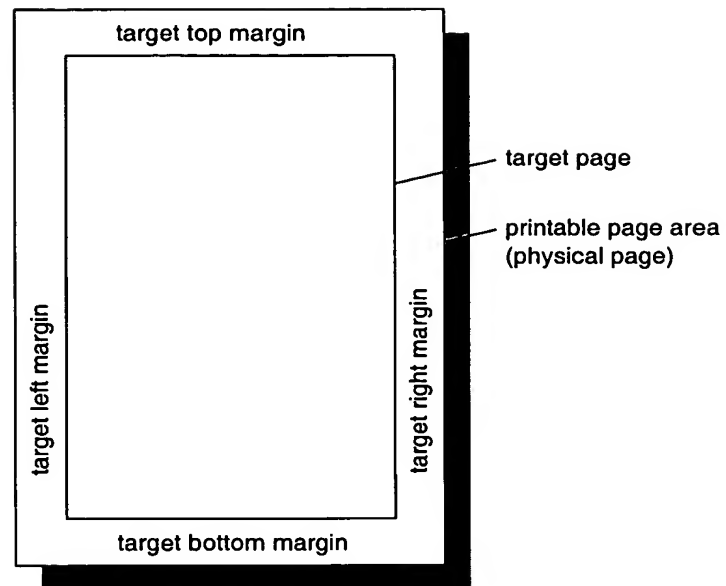


FIG. 234

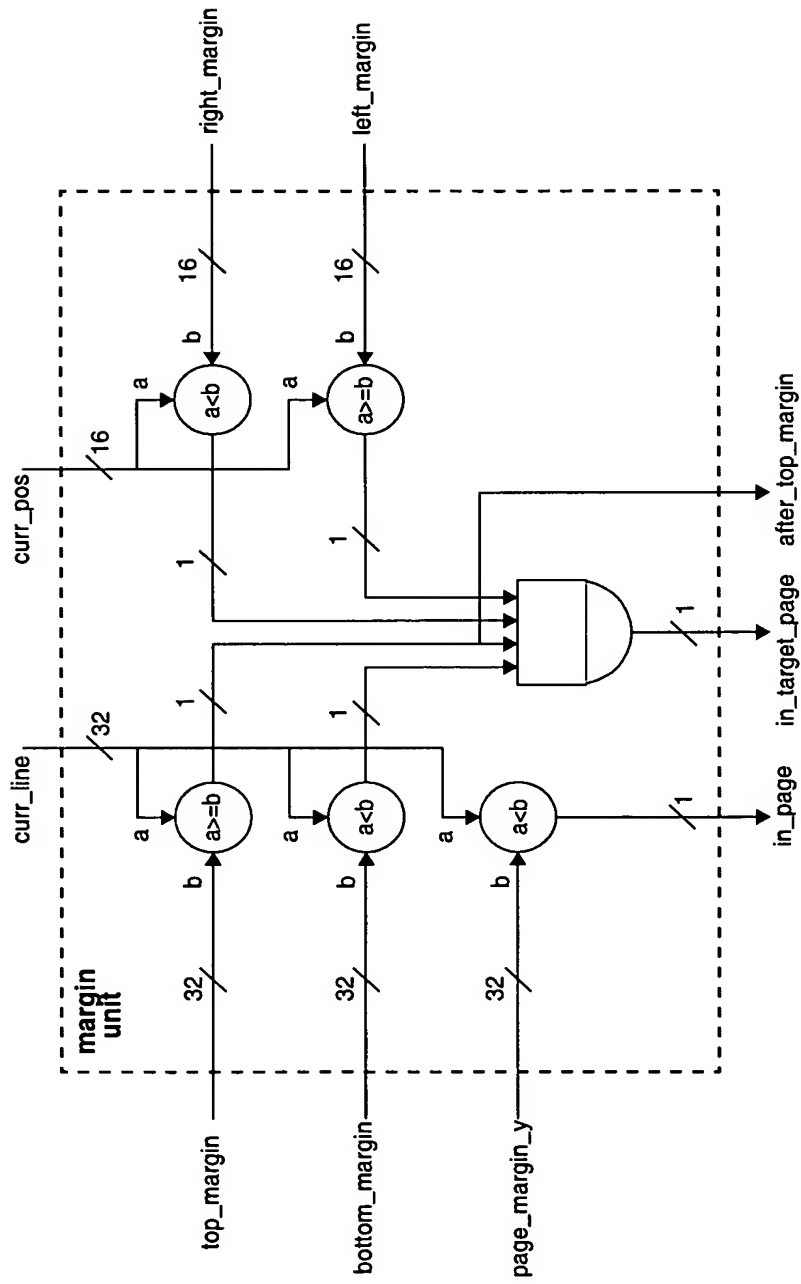


FIG. 235

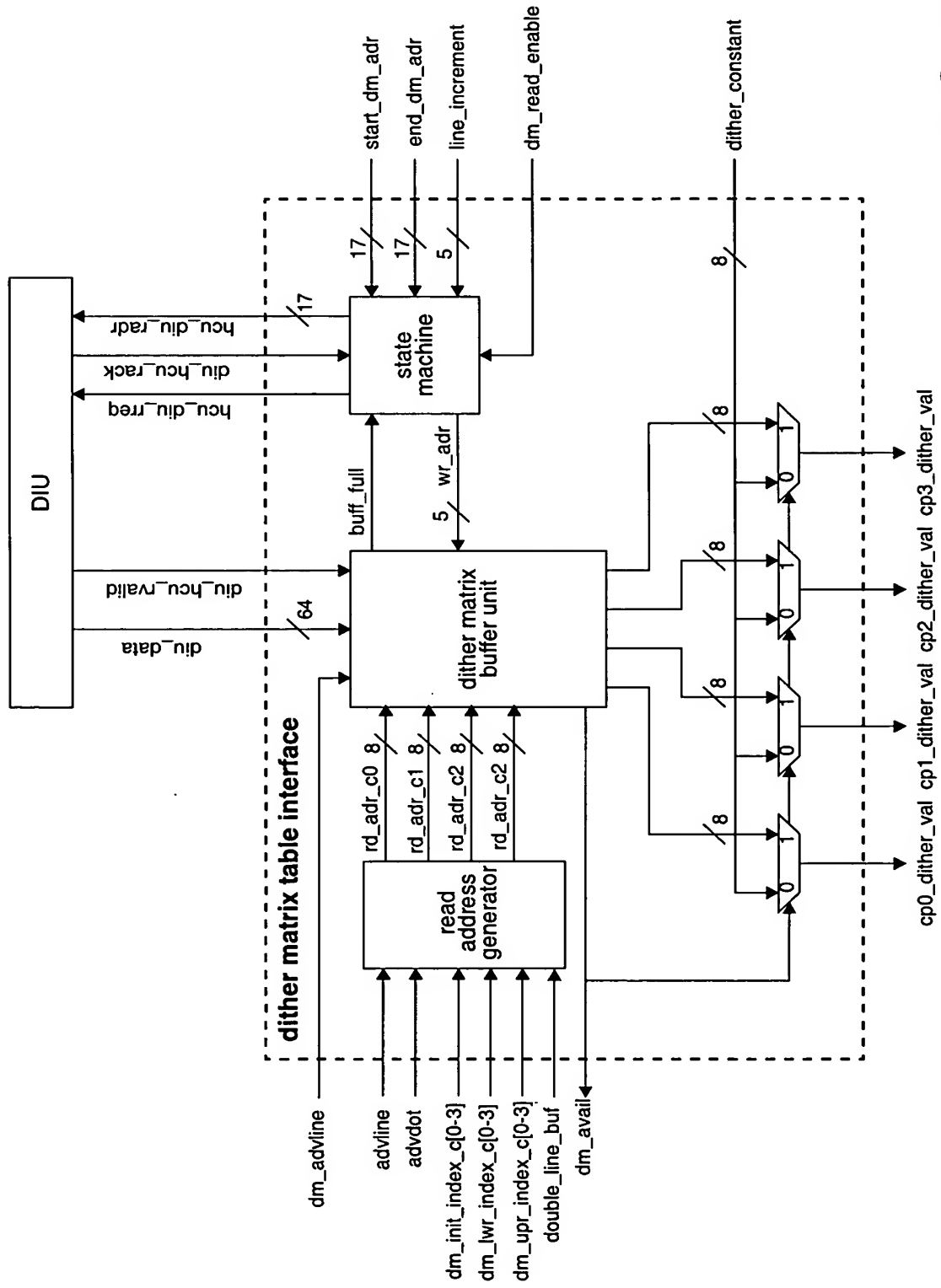


FIG. 236

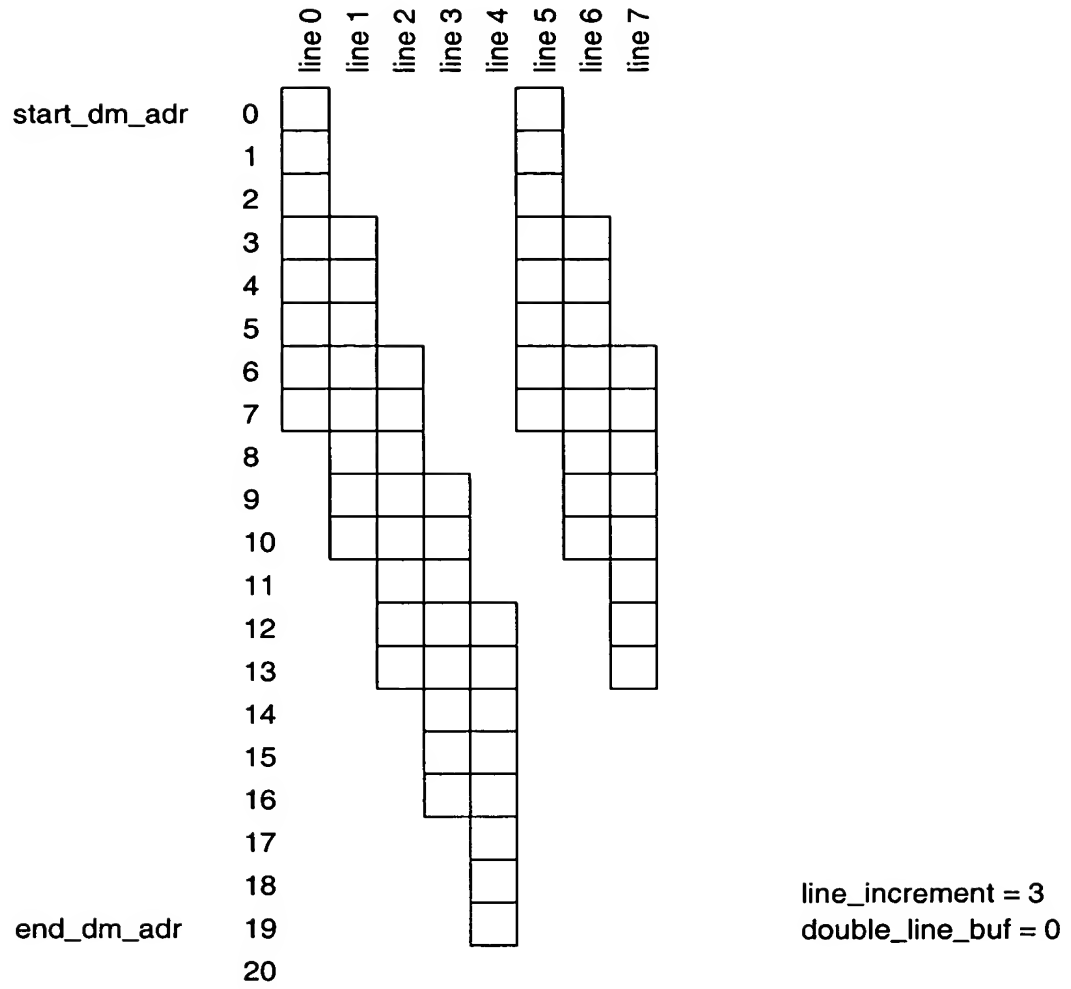


FIG. 237

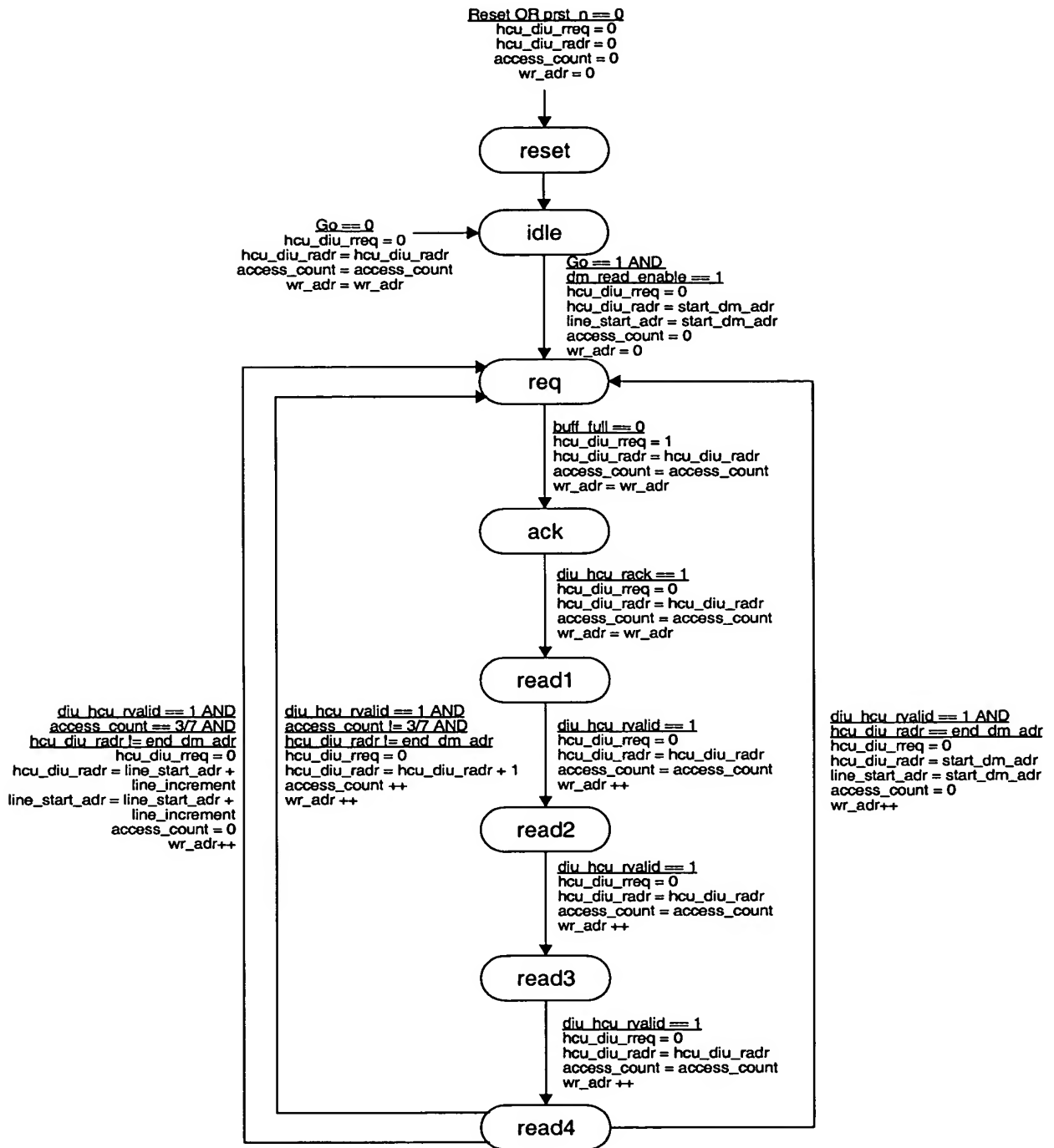


FIG. 238

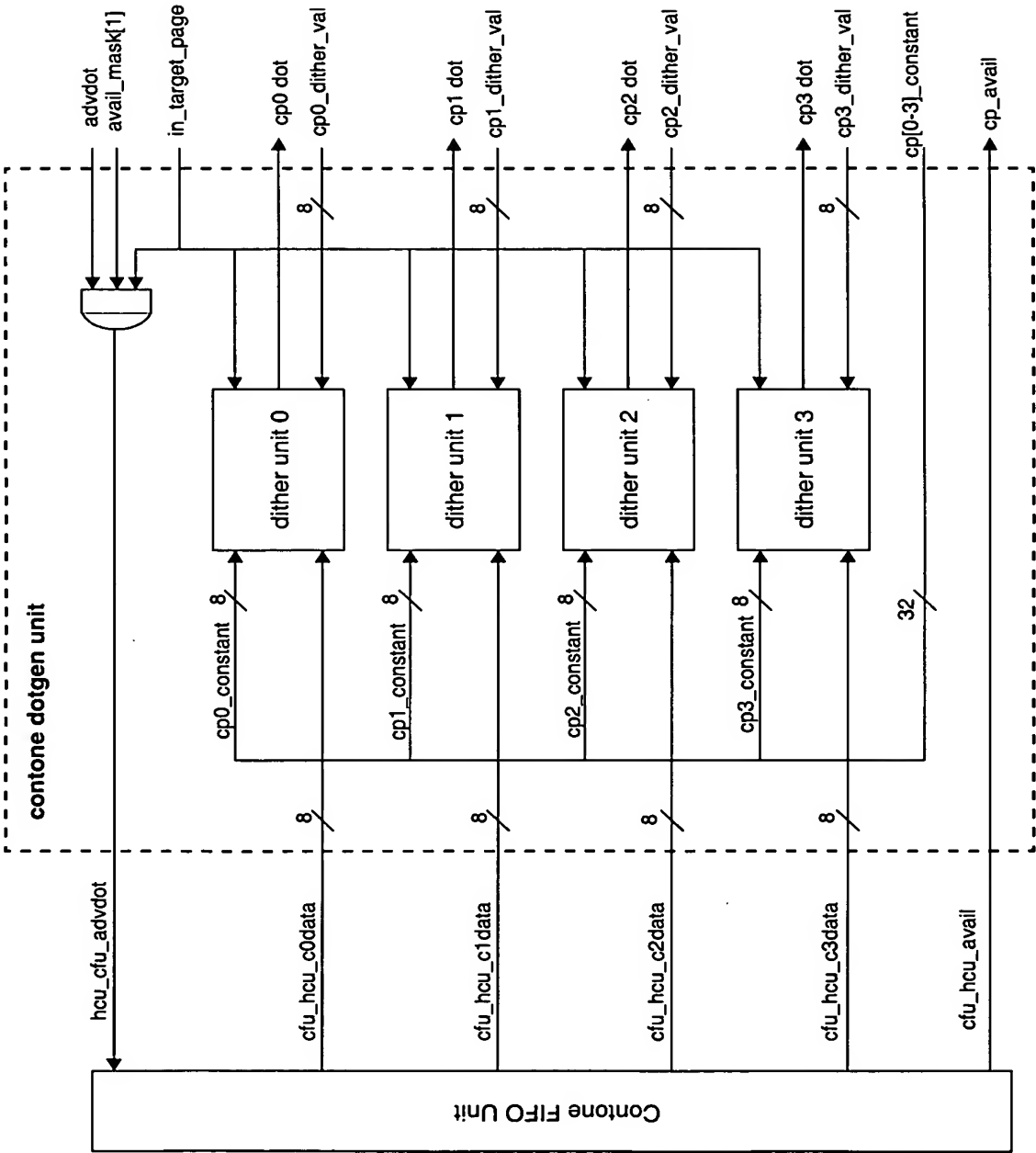


FIG. 239

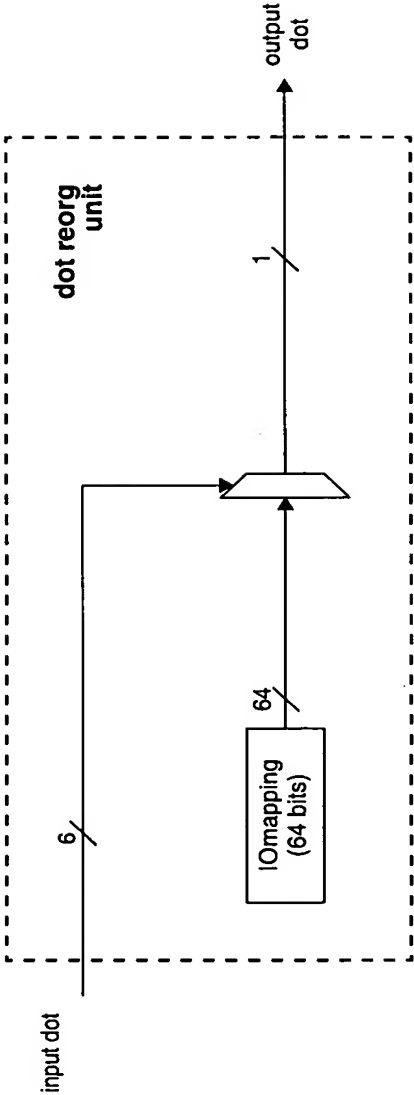
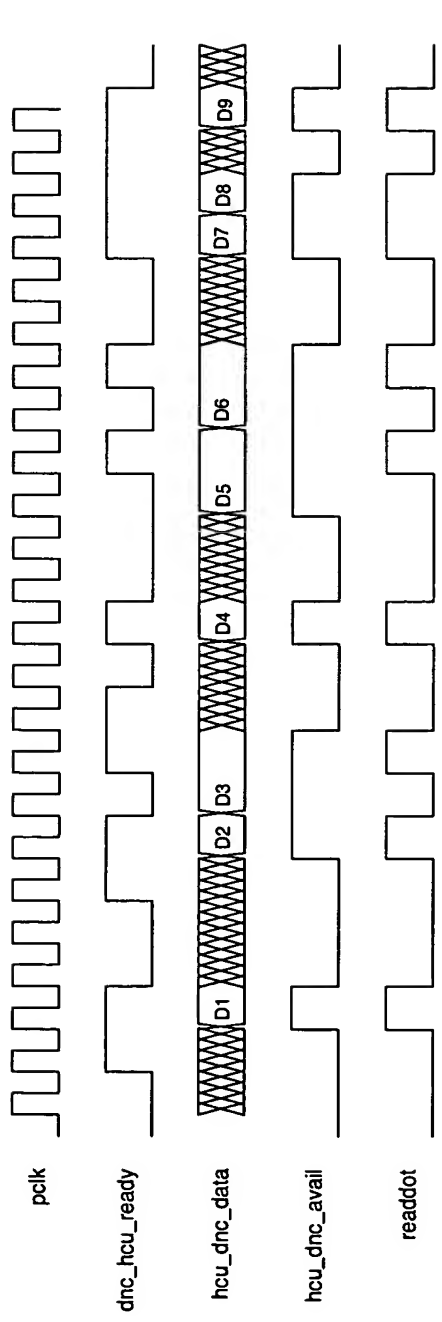


FIG. 240



207/331

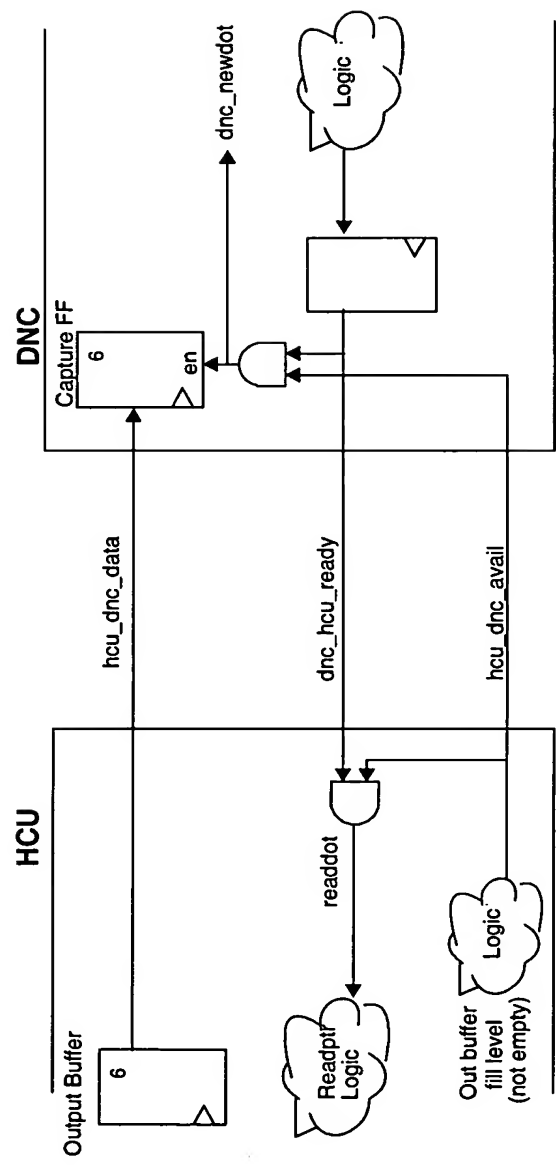


FIG. 241

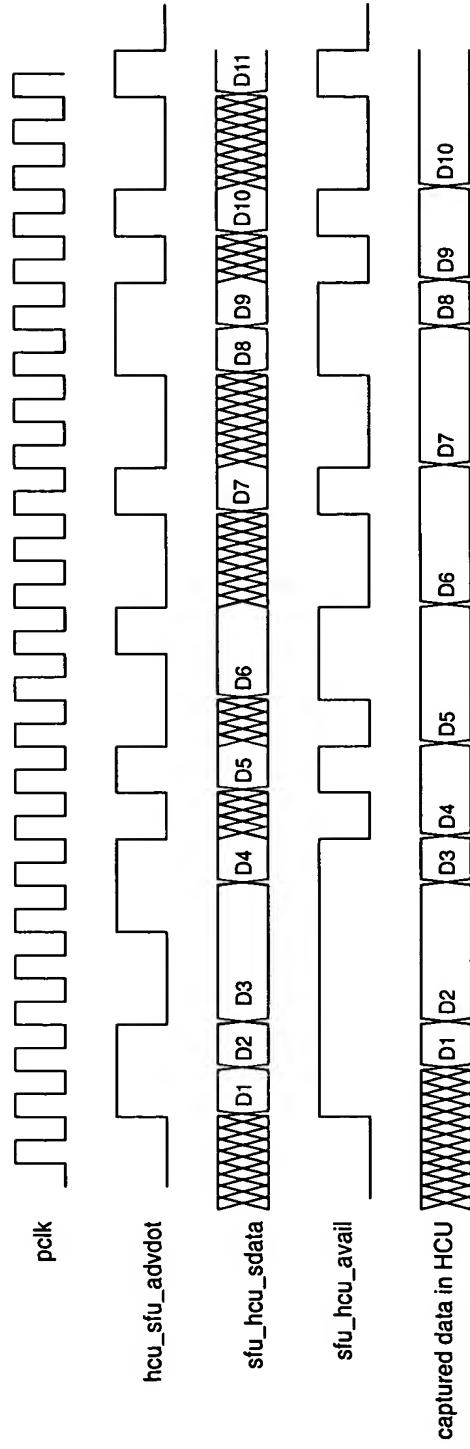


FIG. 242

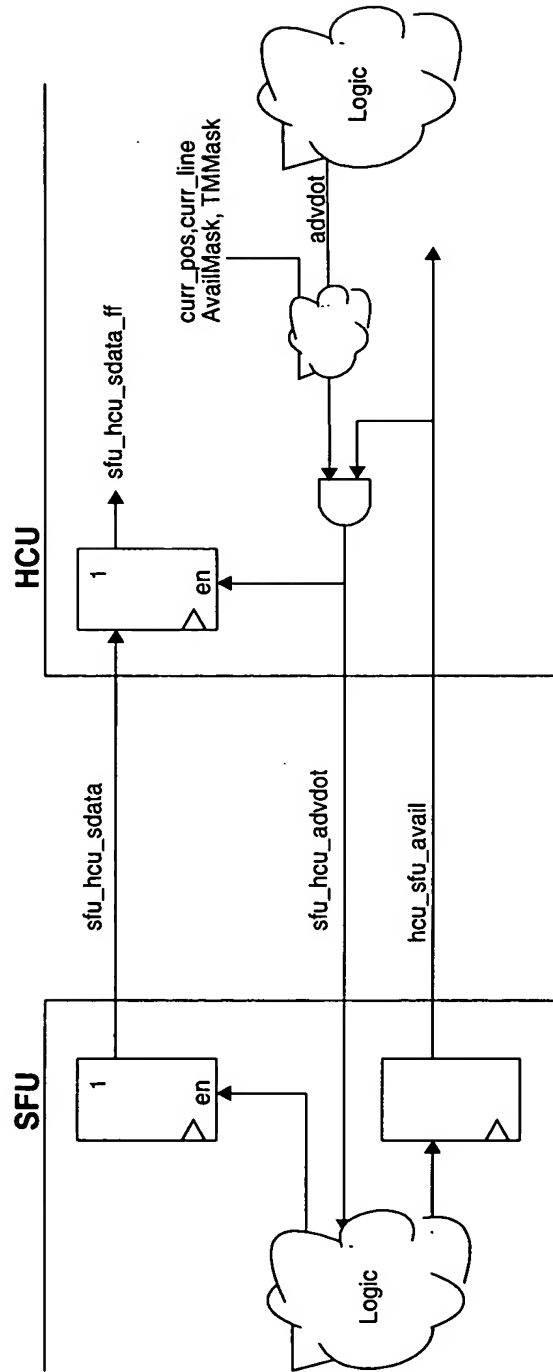


FIG. 243

210/331

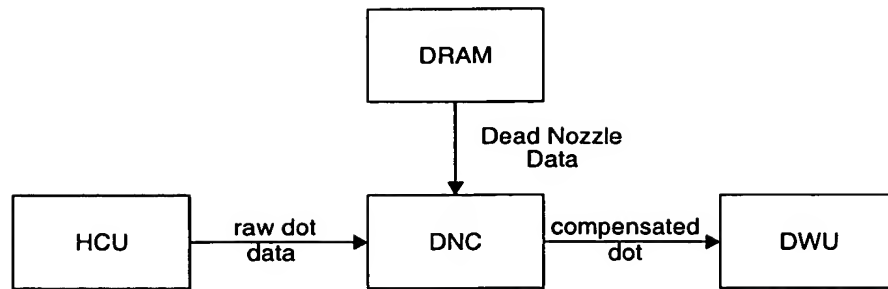


FIG. 244

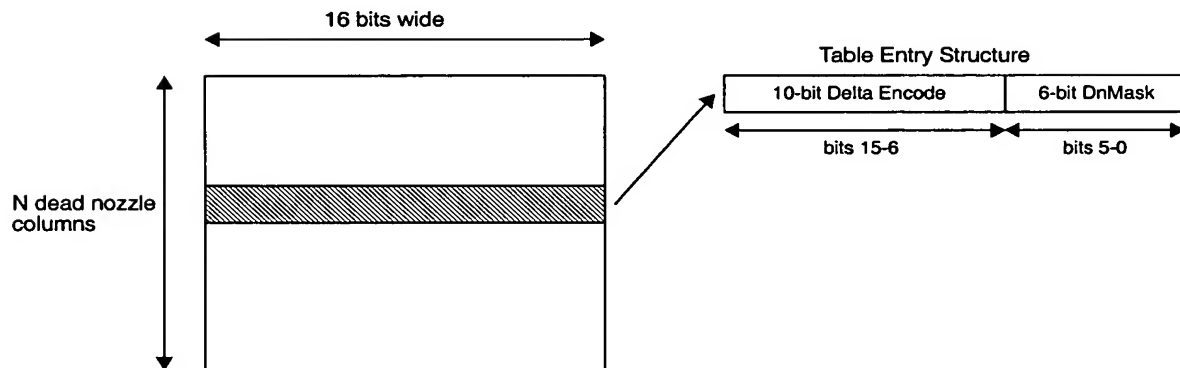


FIG. 245

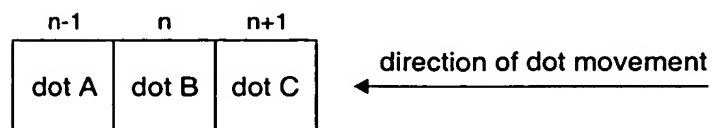


FIG. 246

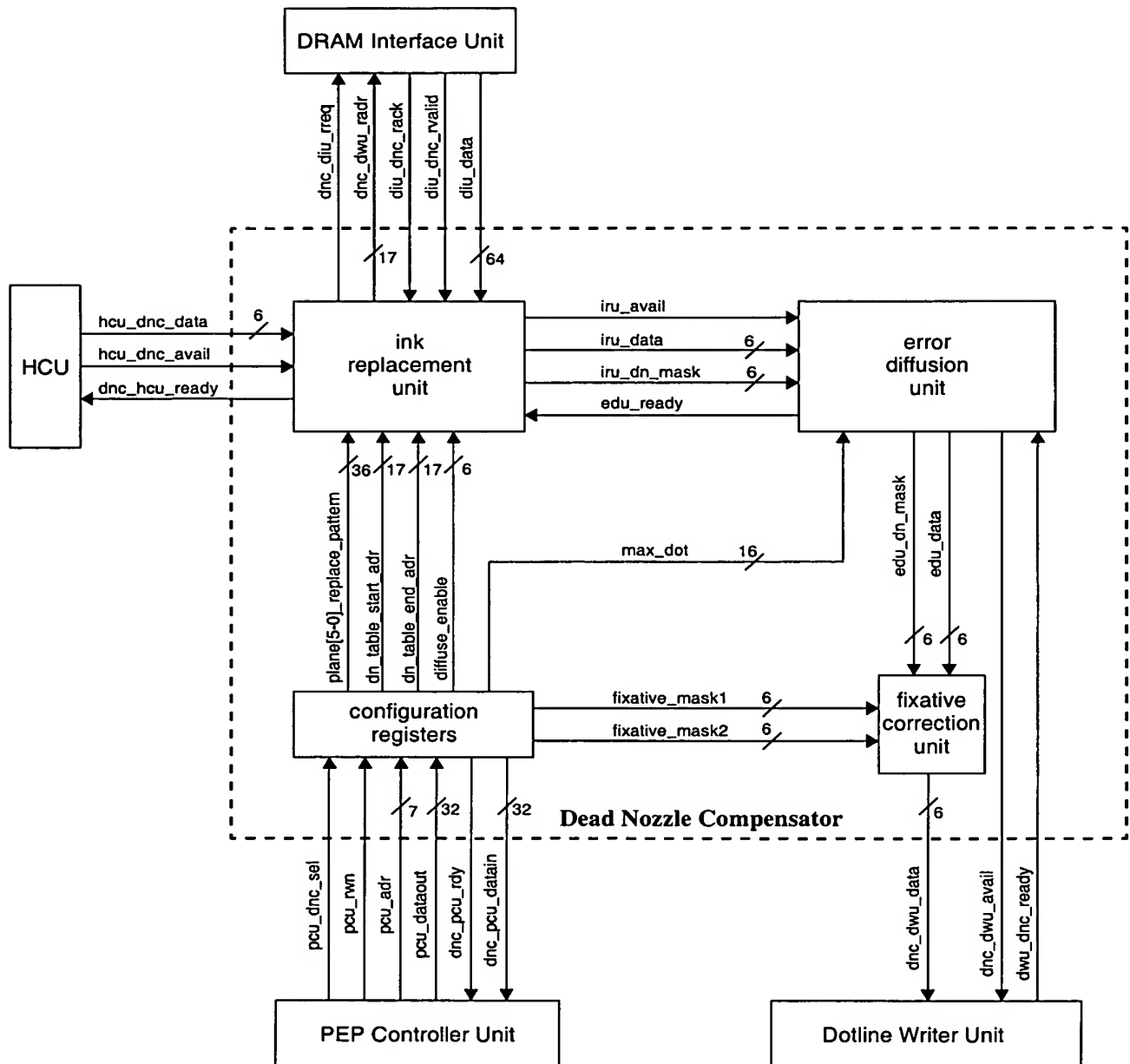


FIG. 247

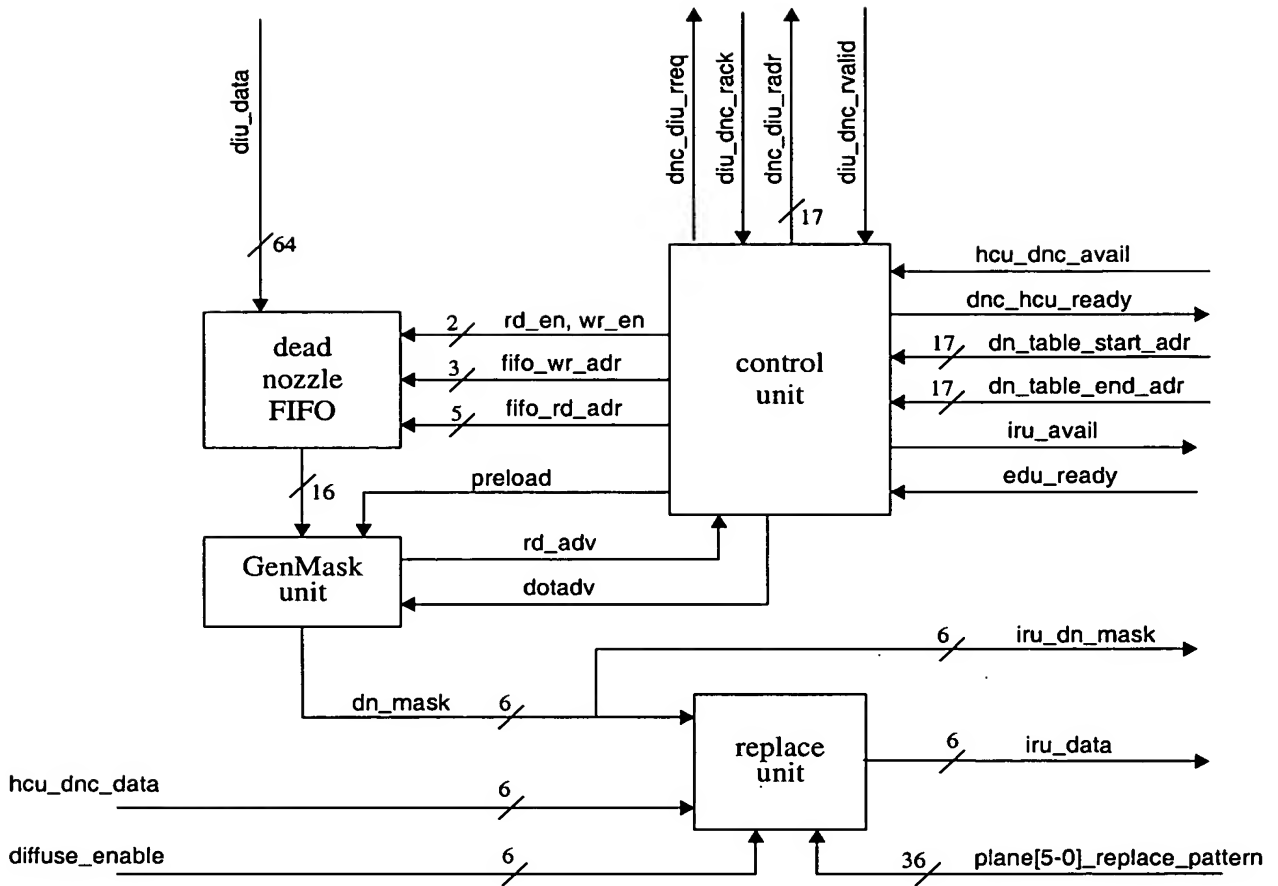


FIG. 248

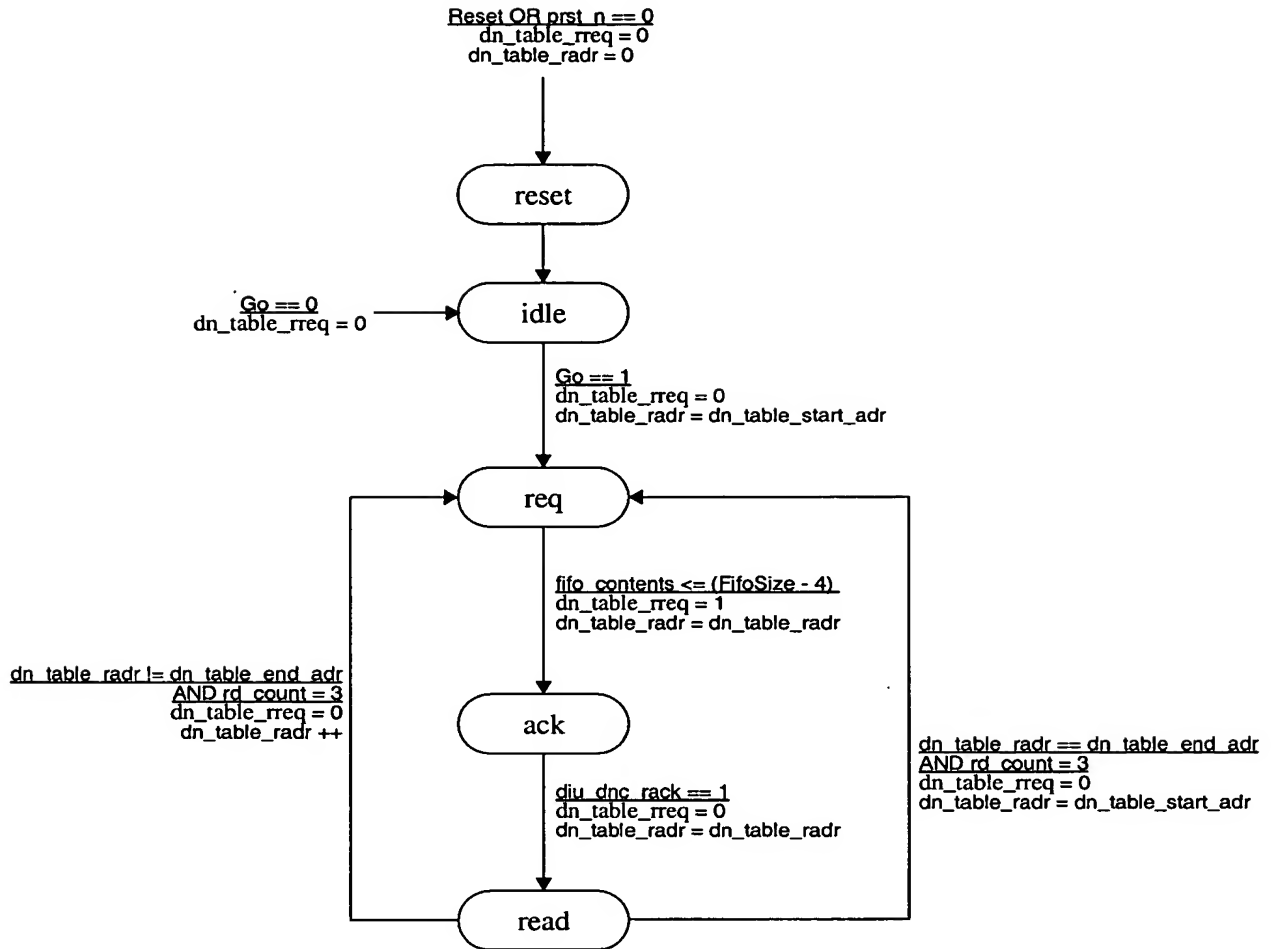


FIG. 249

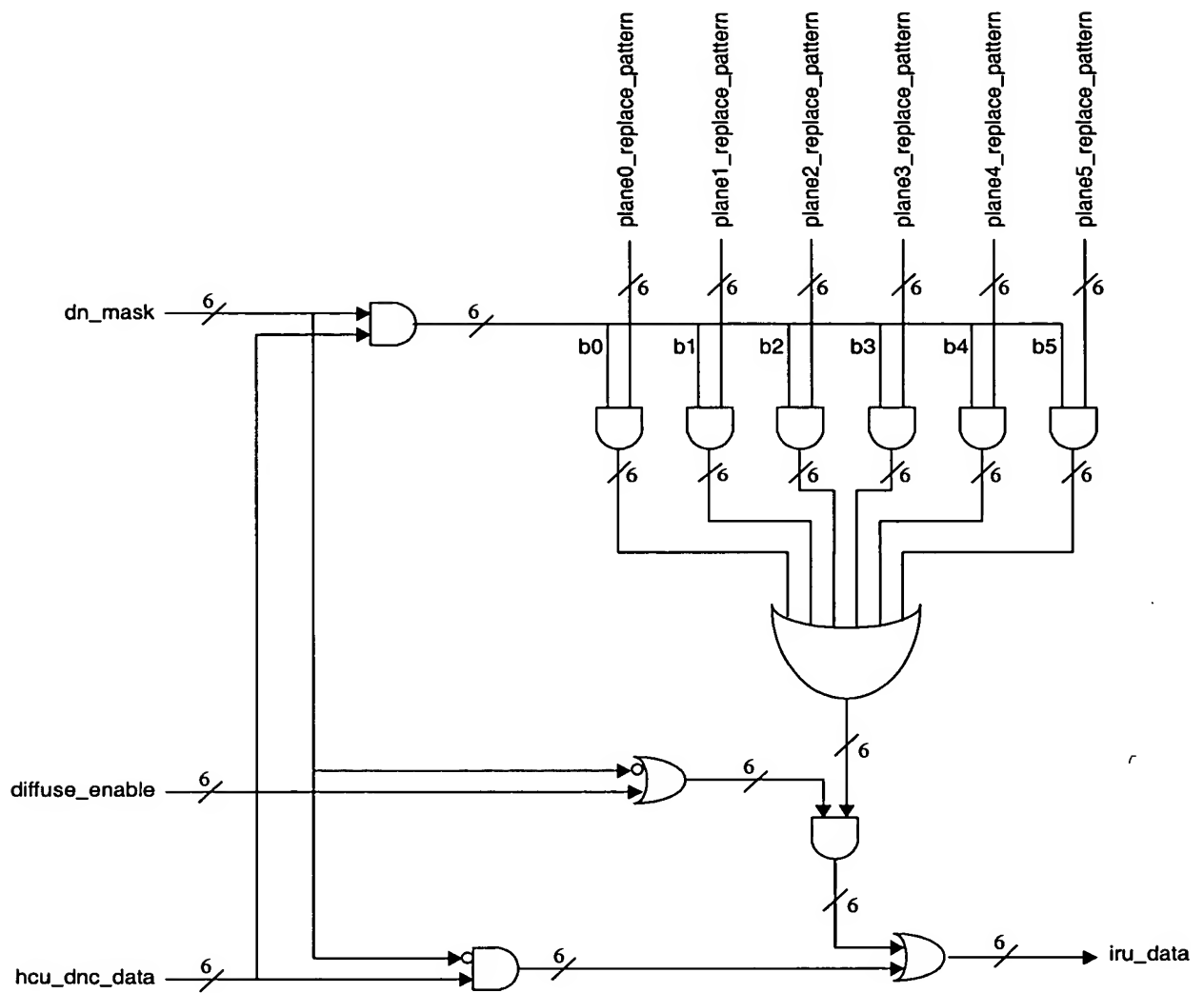


FIG. 250

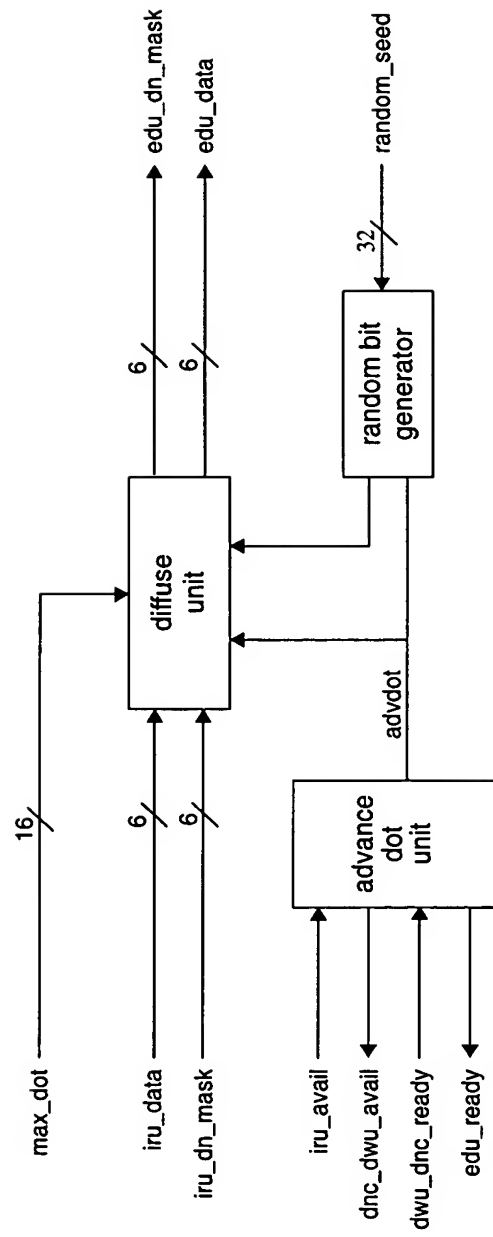


FIG. 251

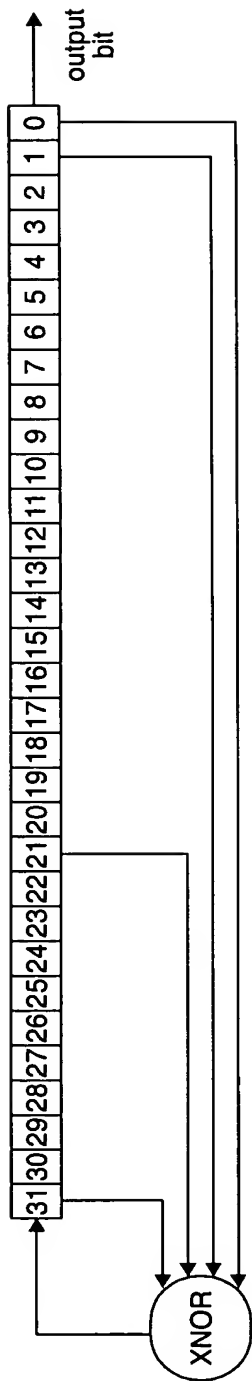


FIG. 252

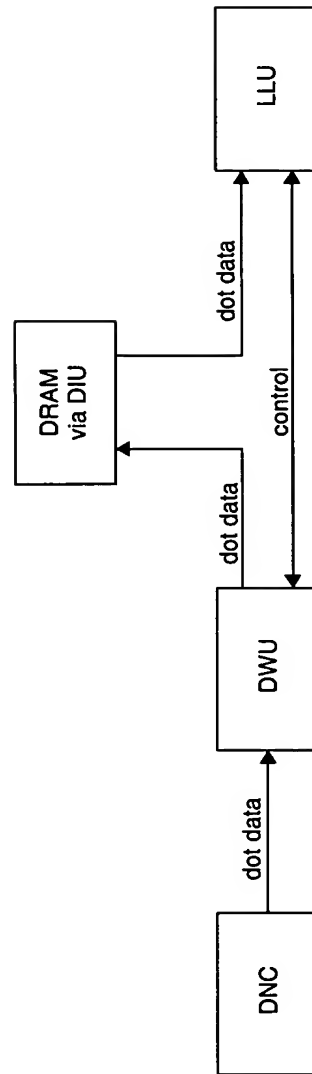
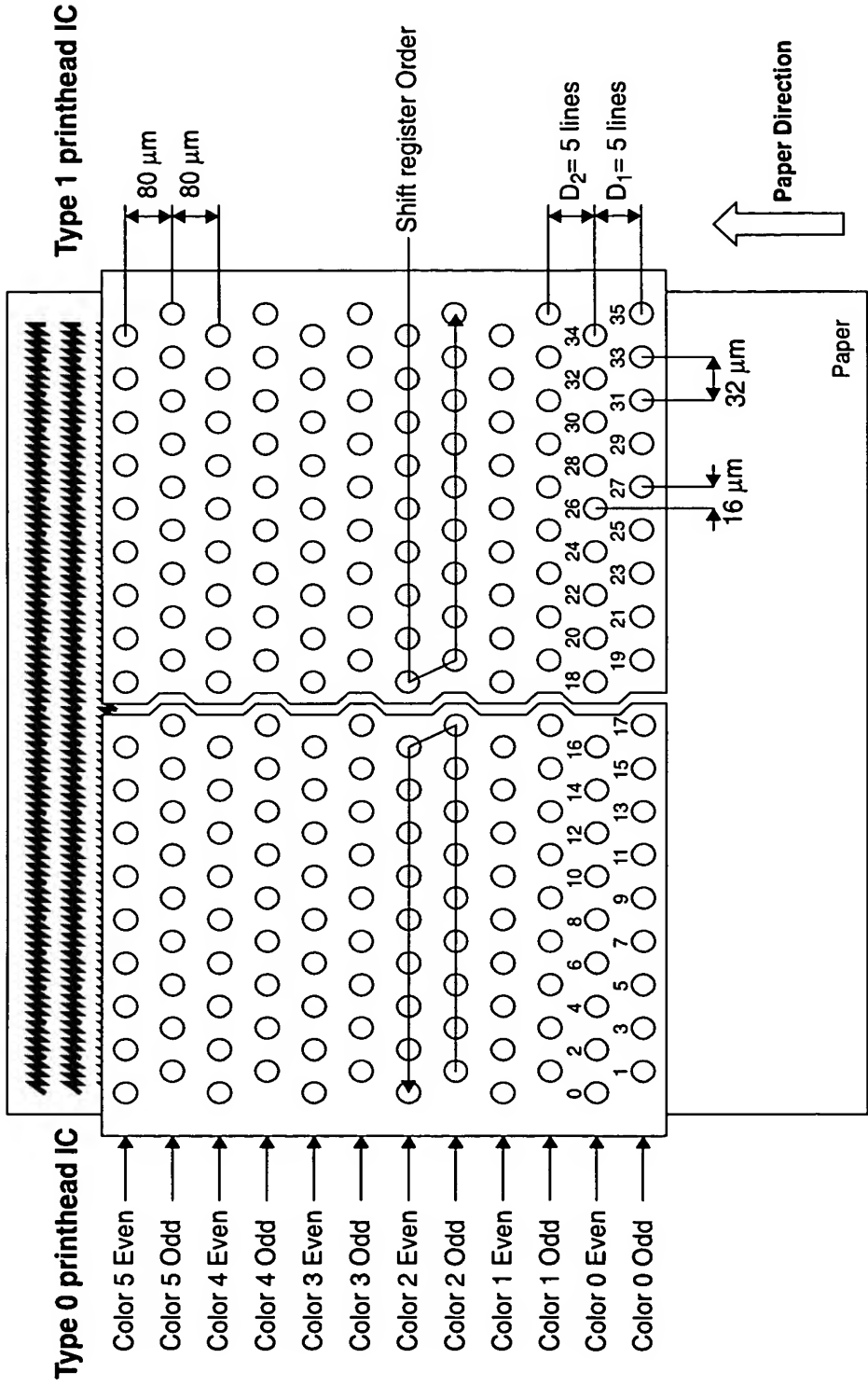


FIG. 253



Note: Paper passes under printhead

FIG. 254

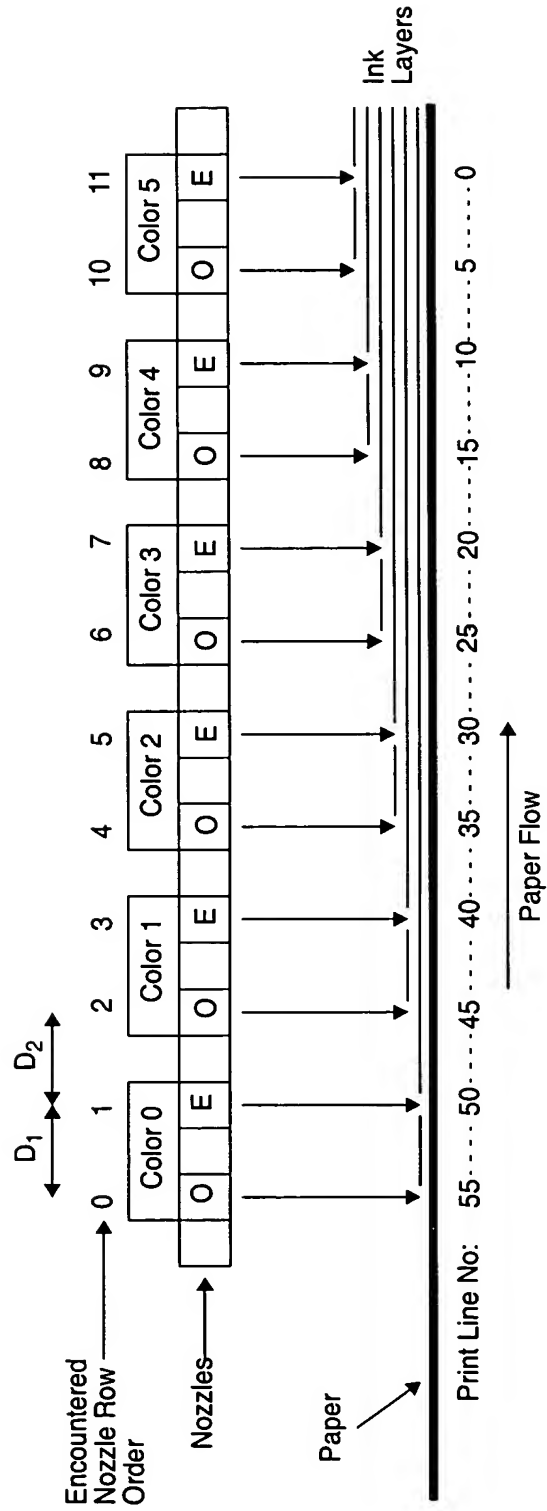


FIG. 255

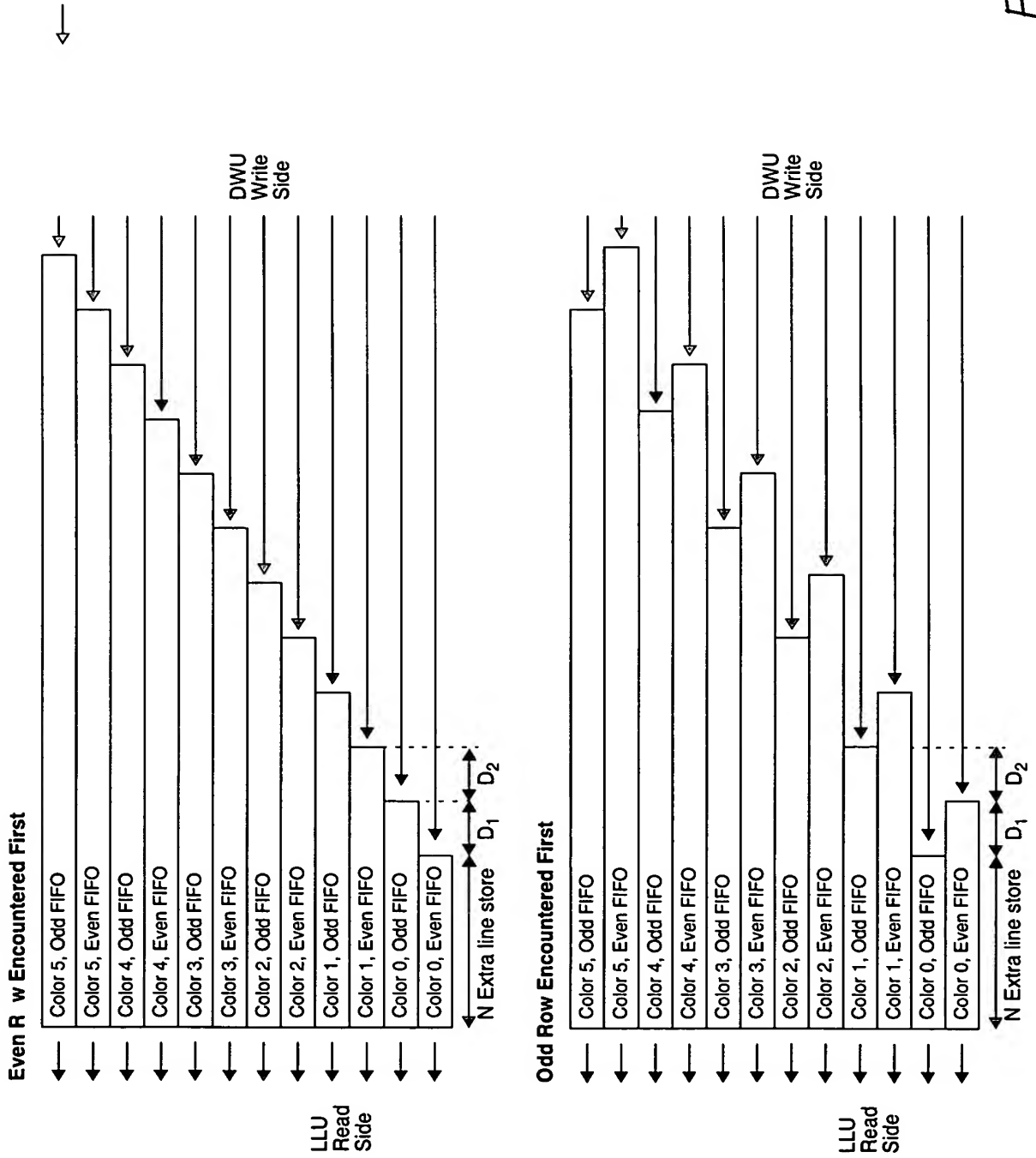


FIG. 256

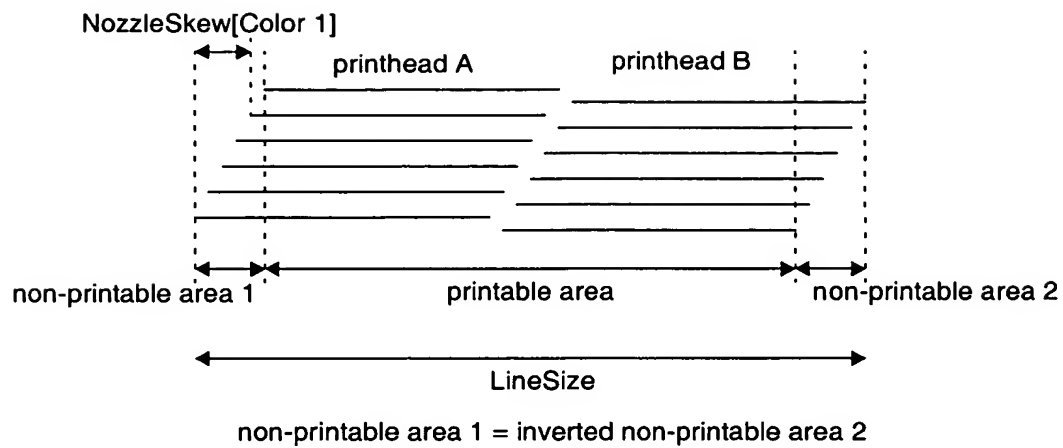


FIG. 257

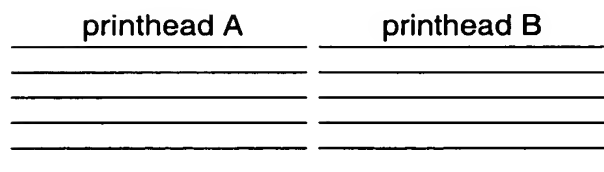


FIG. 258

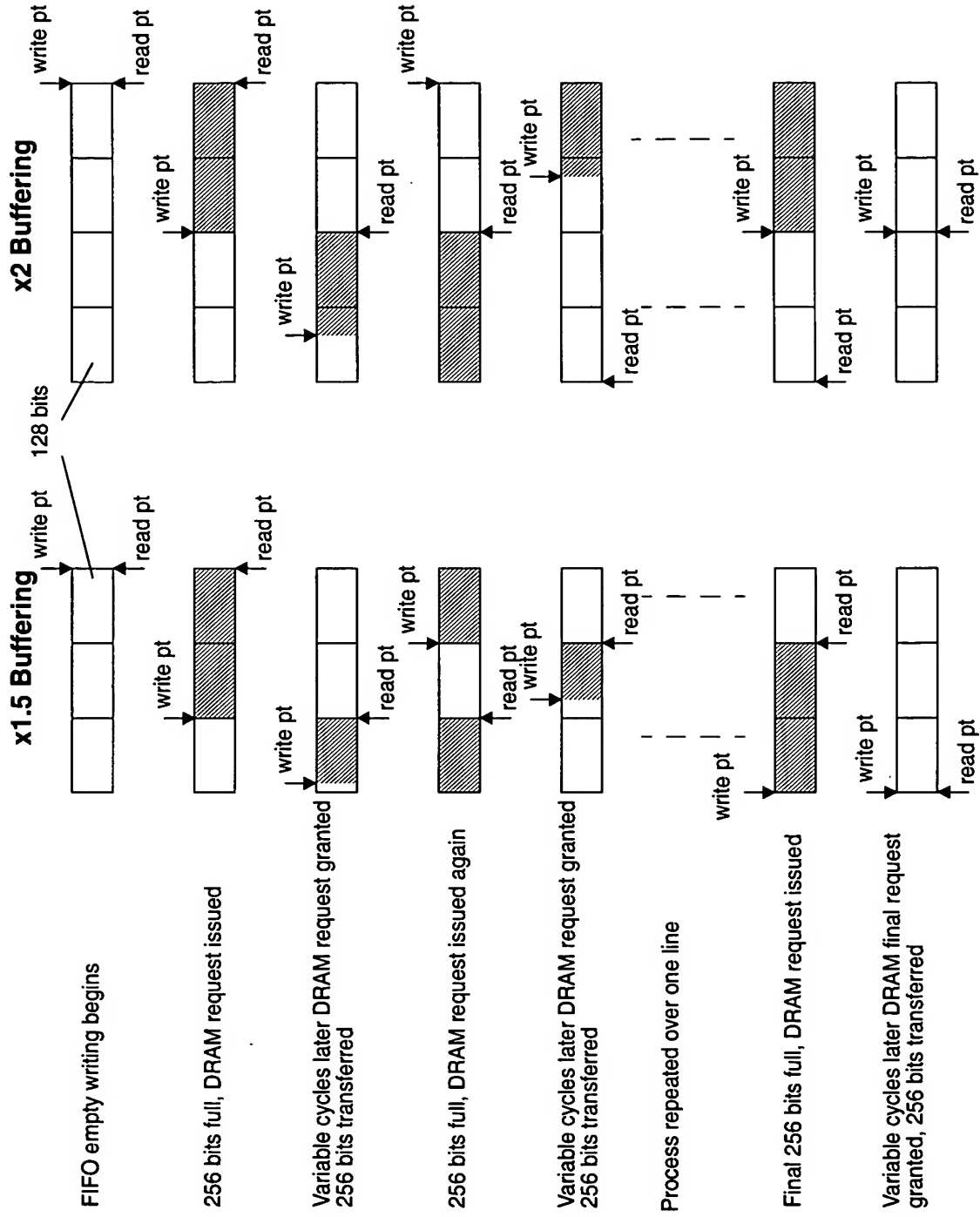


FIG. 259

Even Dot Storage in DRAM (Increasing Sense)

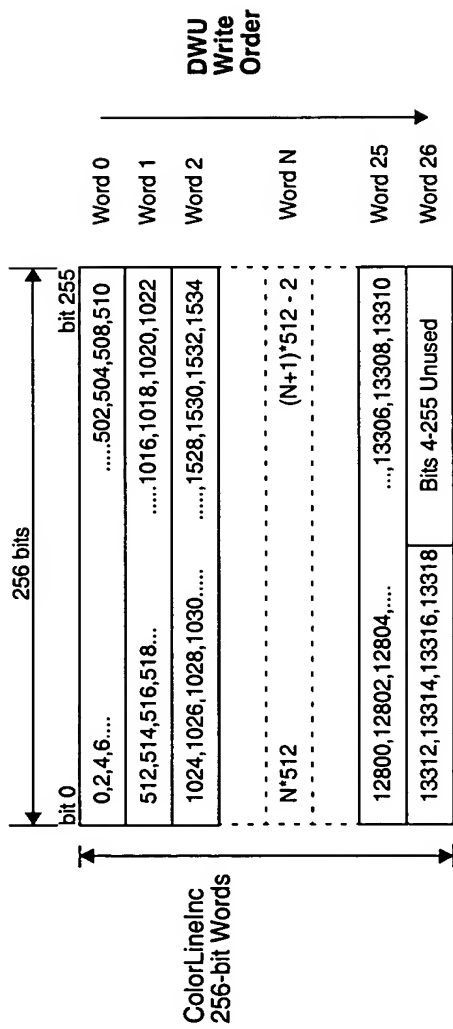


FIG. 260

Even Dot Storage in DRAM (Decreasing Sense)

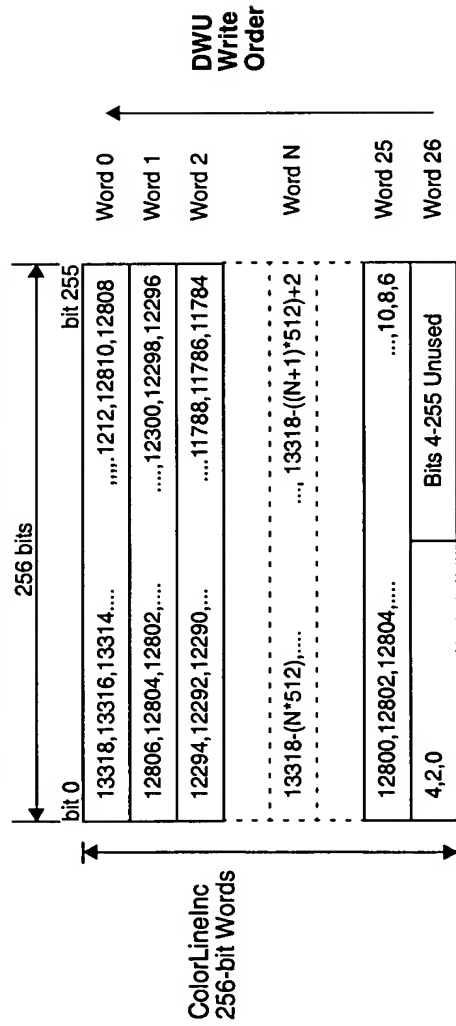


FIG. 261

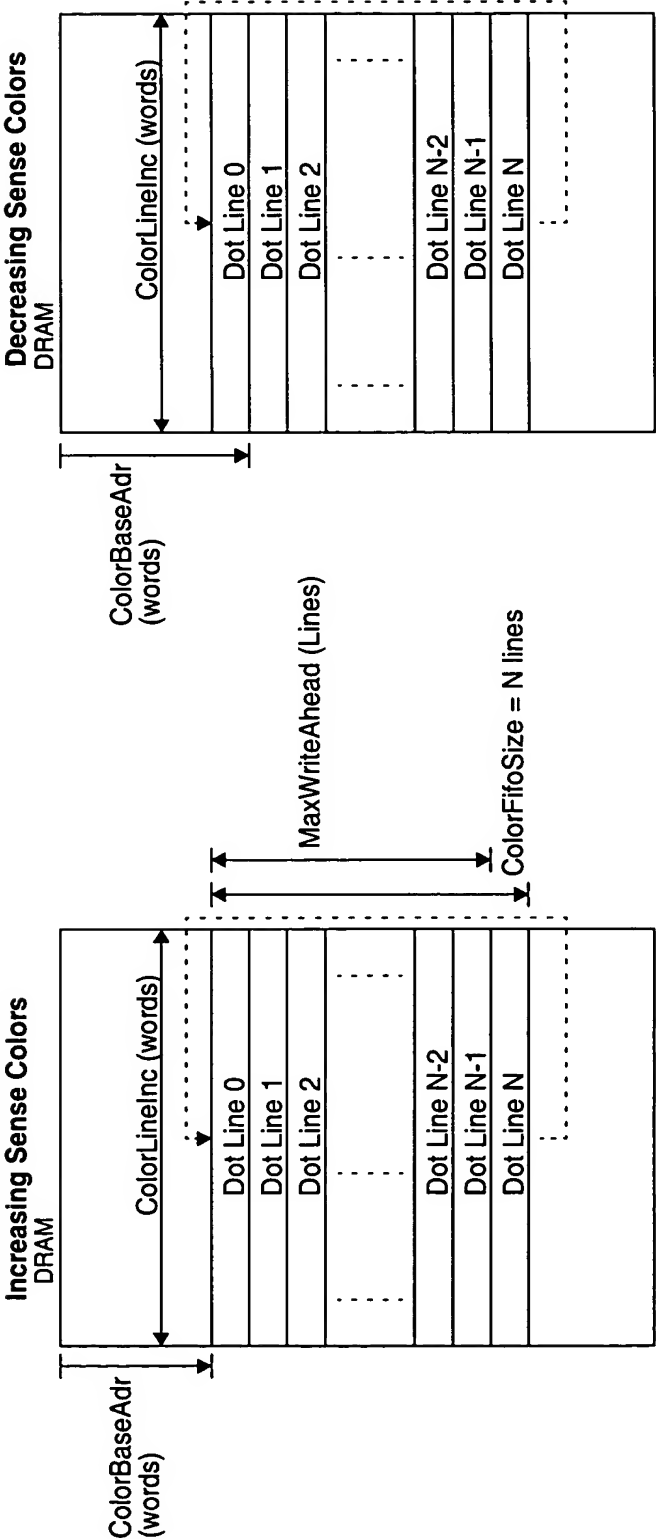


FIG. 262

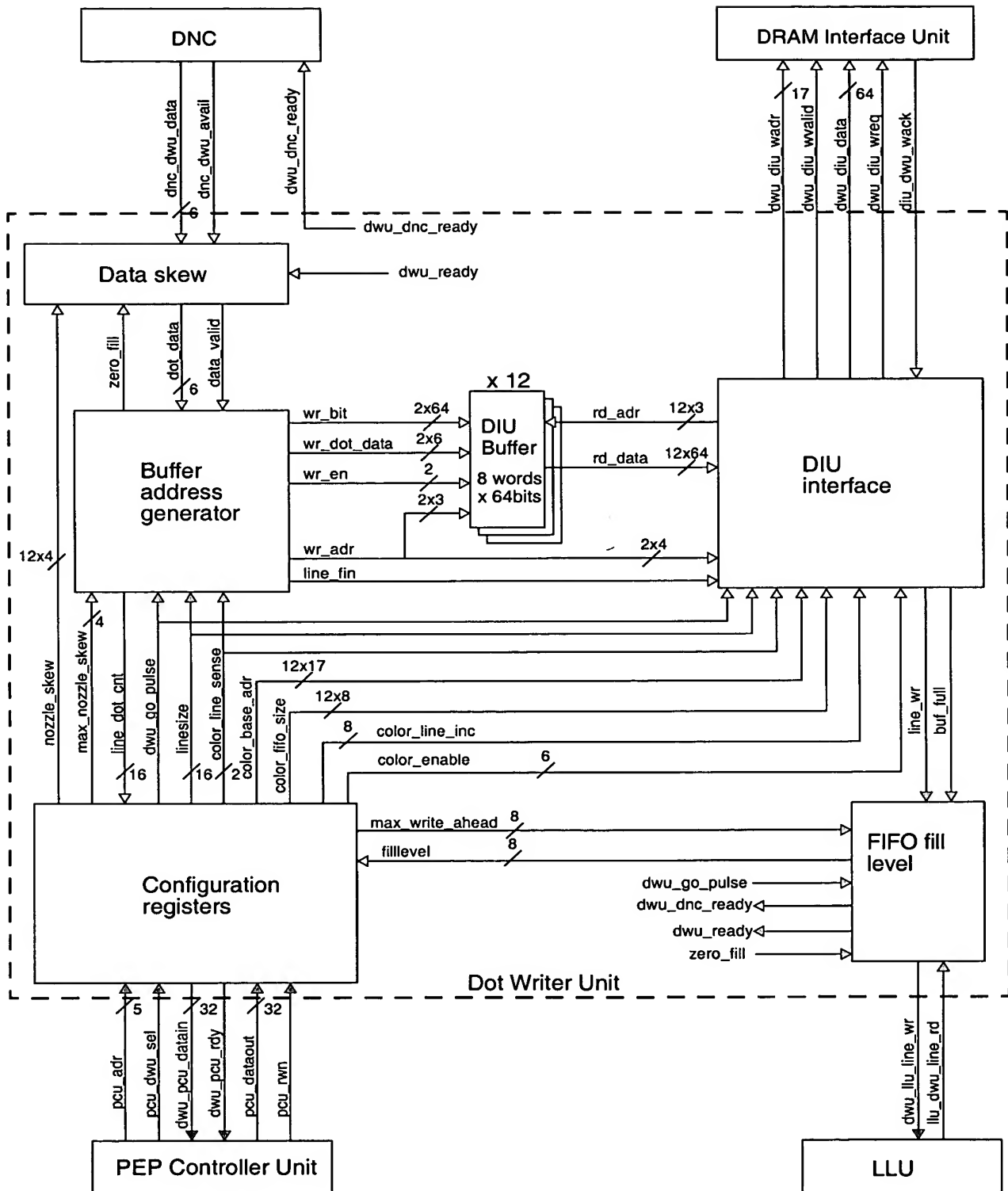


FIG. 263

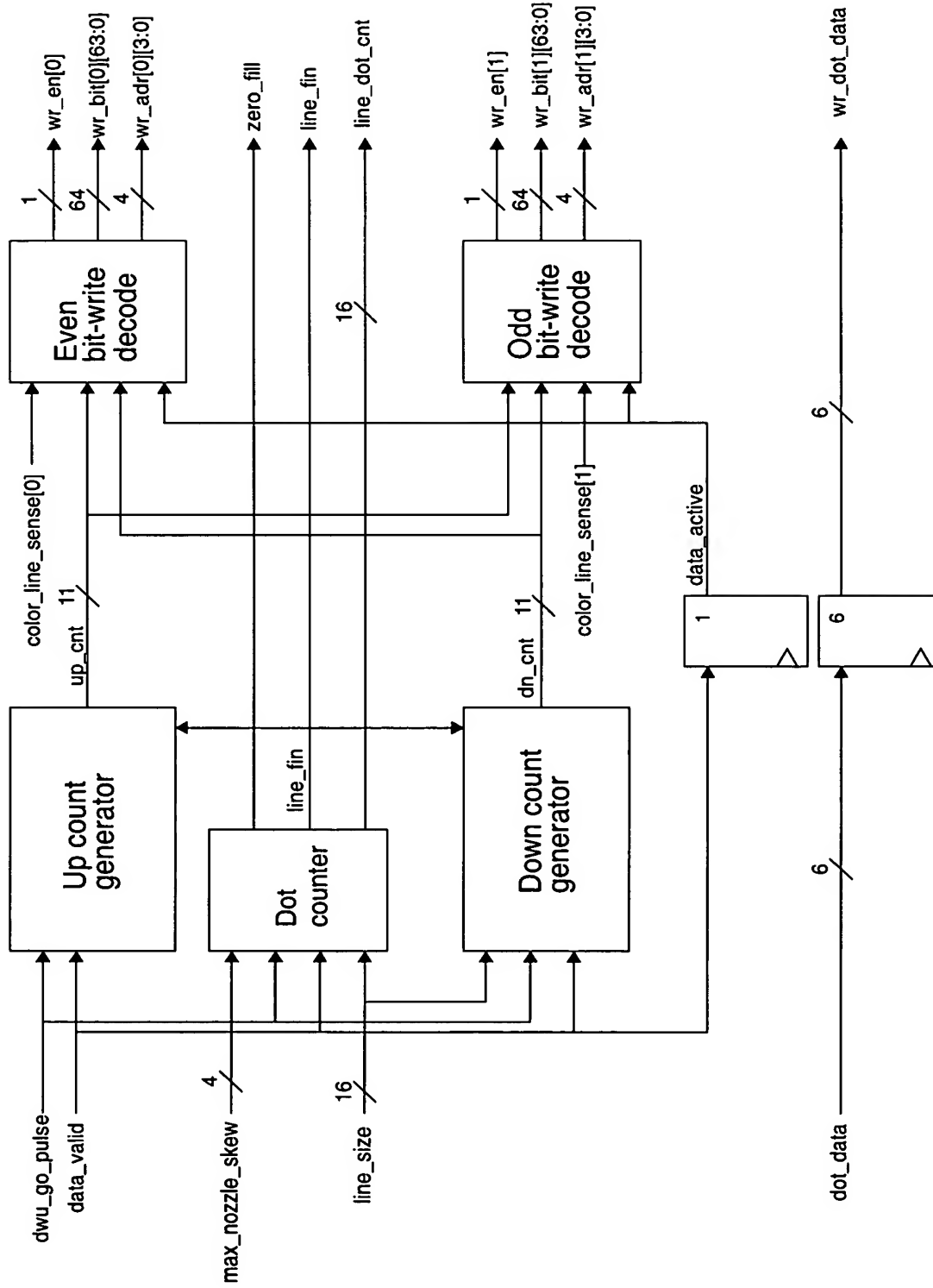


FIG. 264

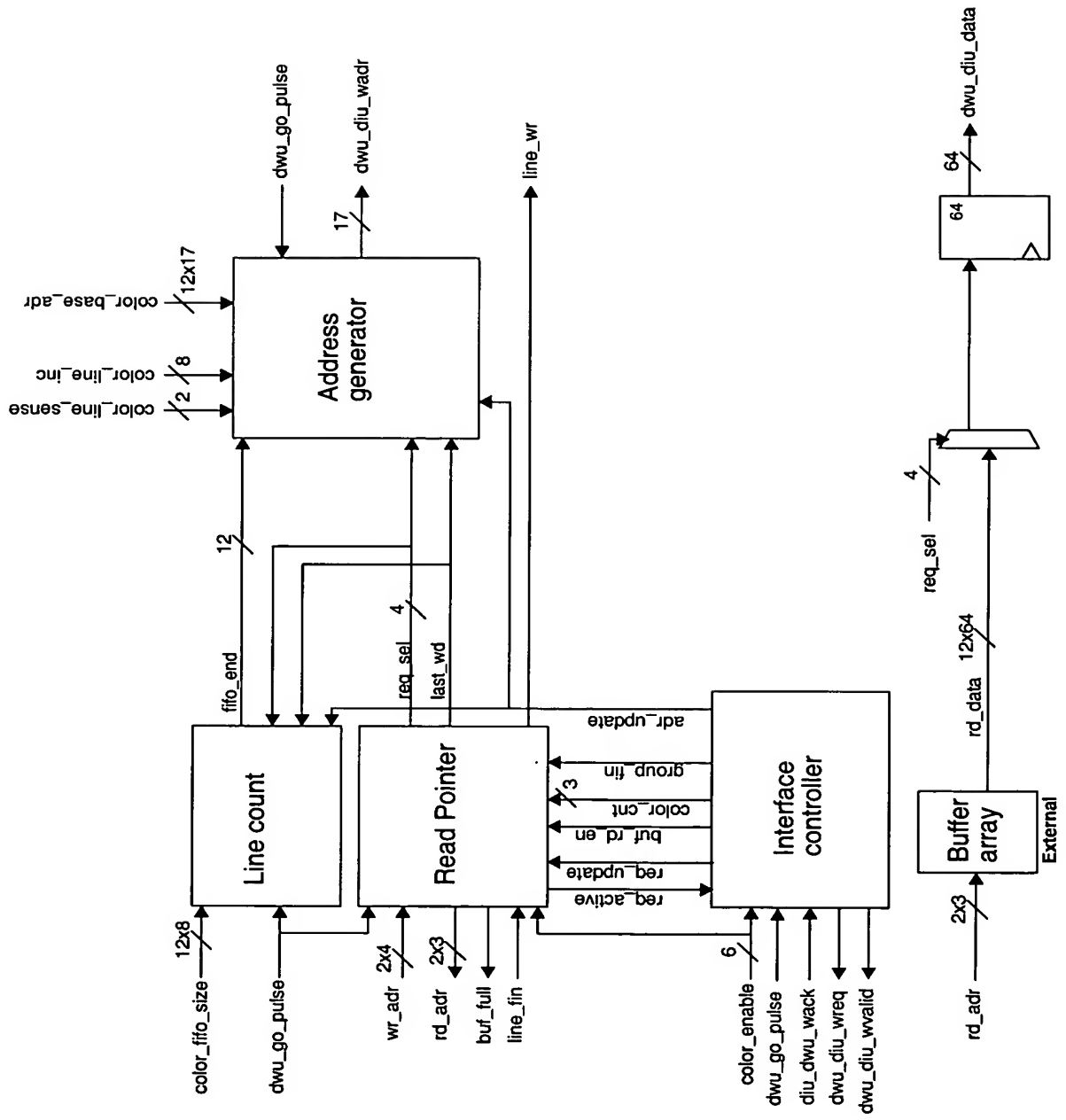


FIG. 265

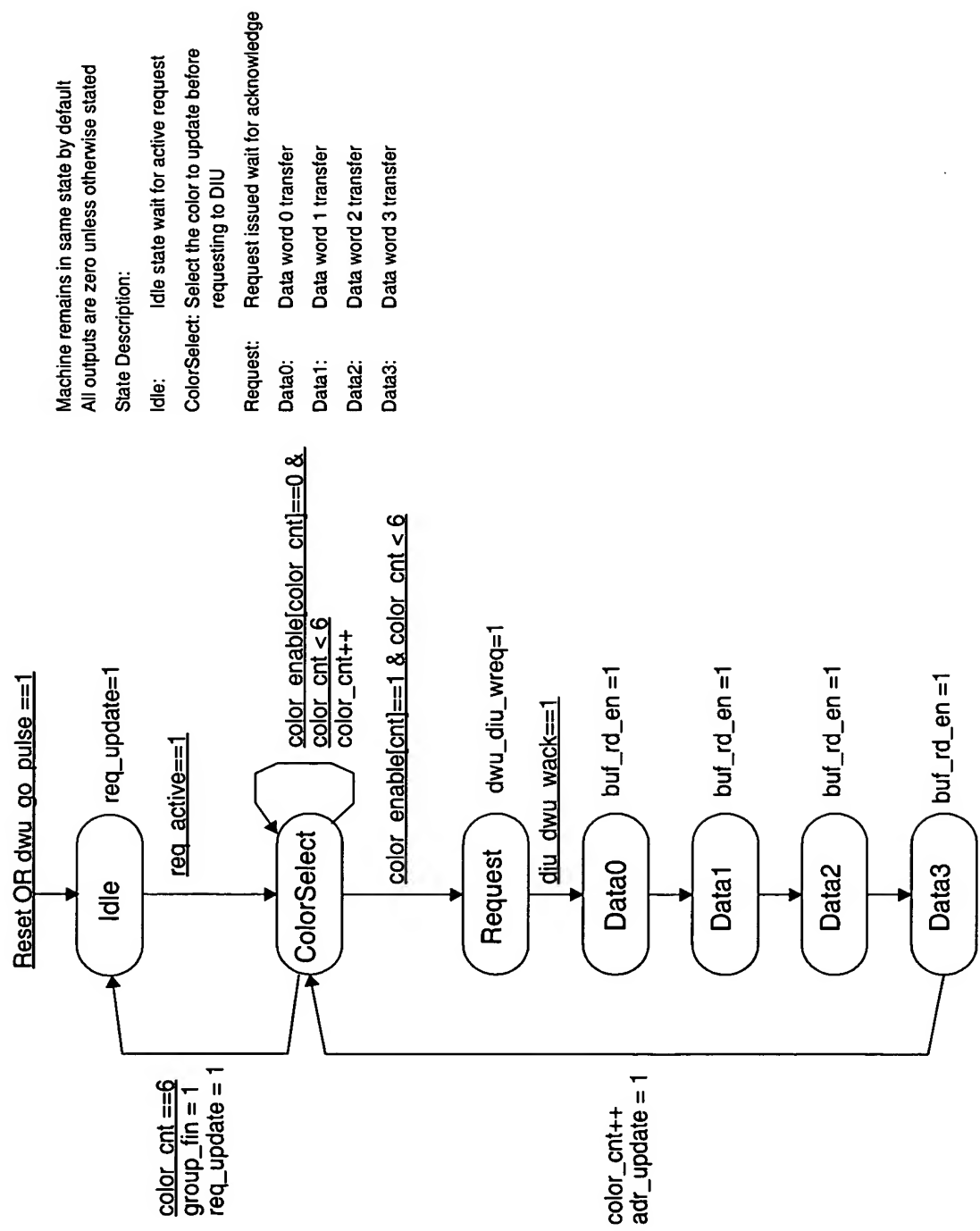


FIG. 266

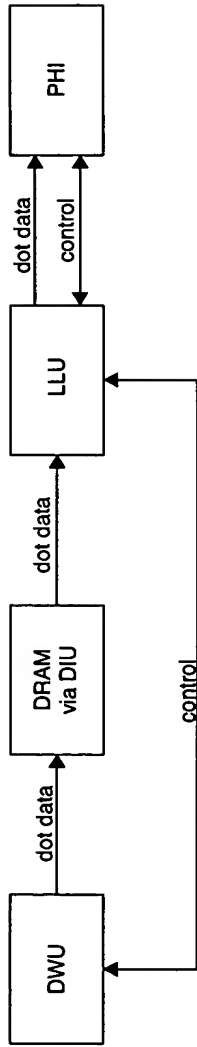


FIG. 267

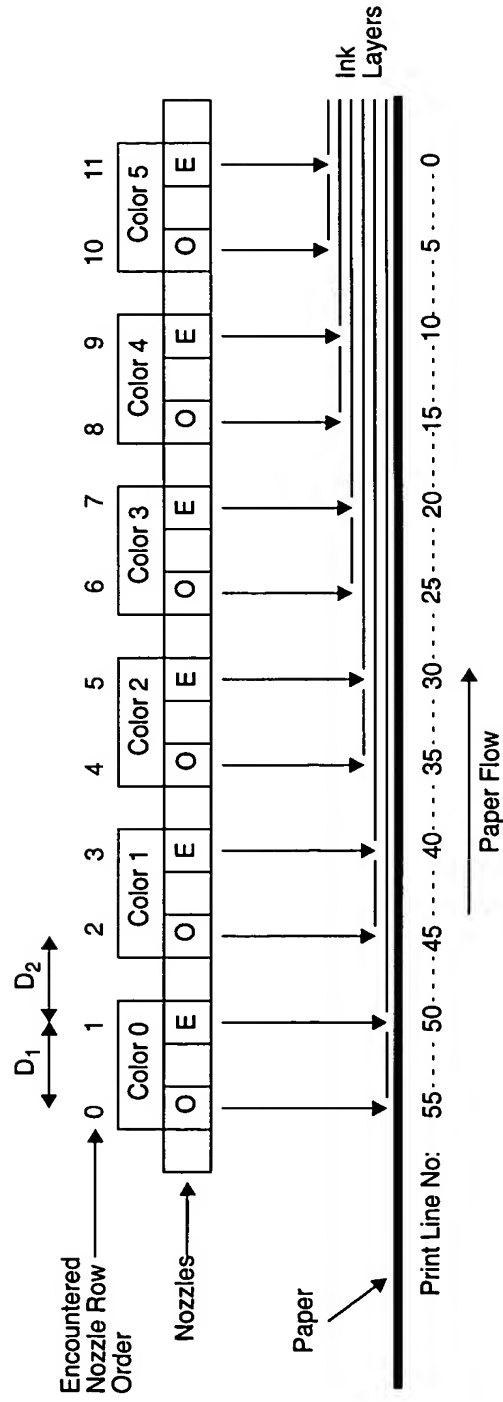


FIG. 268

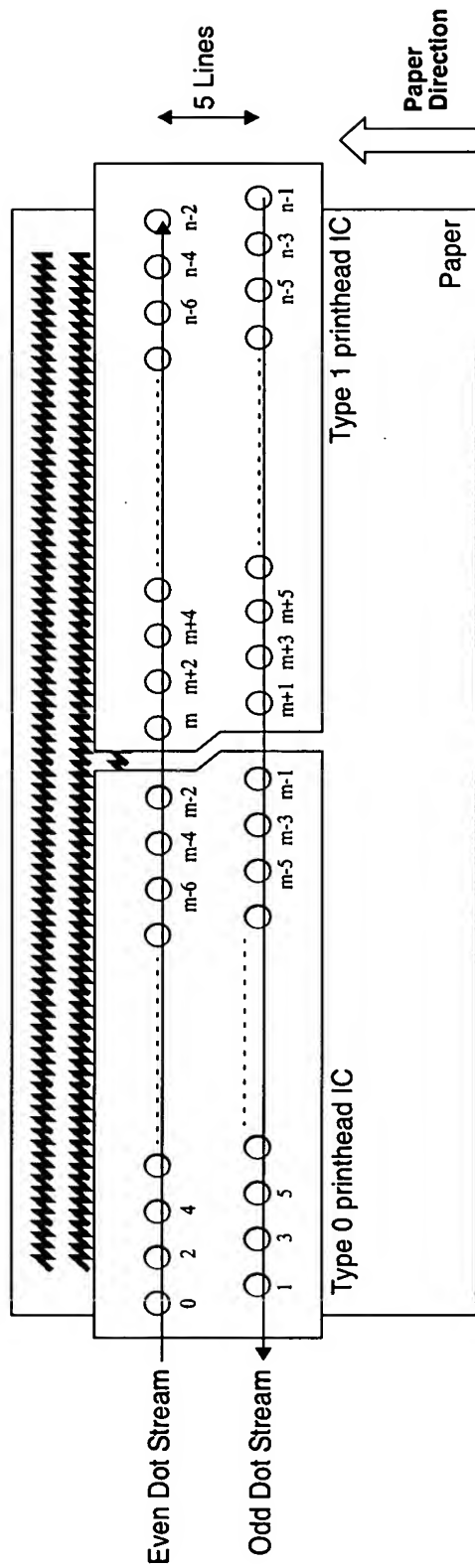


FIG. 269

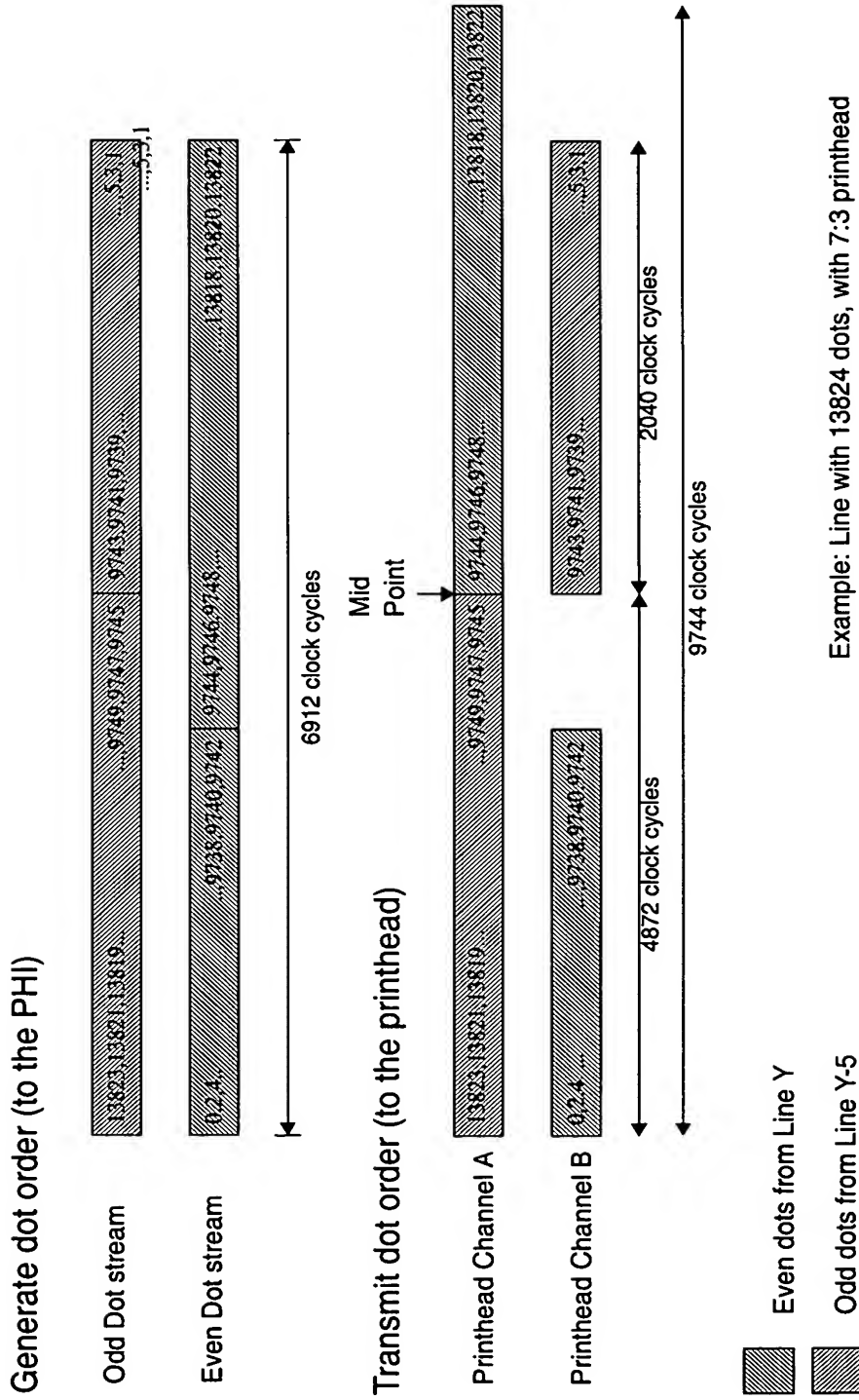


FIG. 270

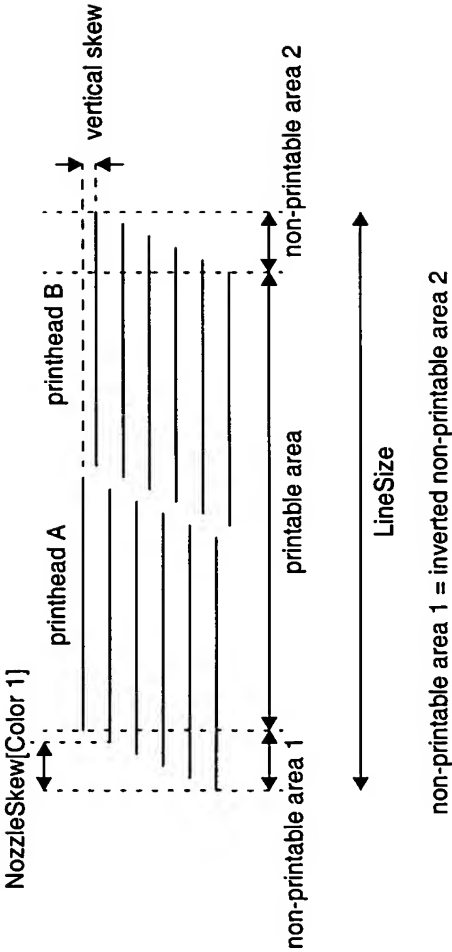


FIG. 271

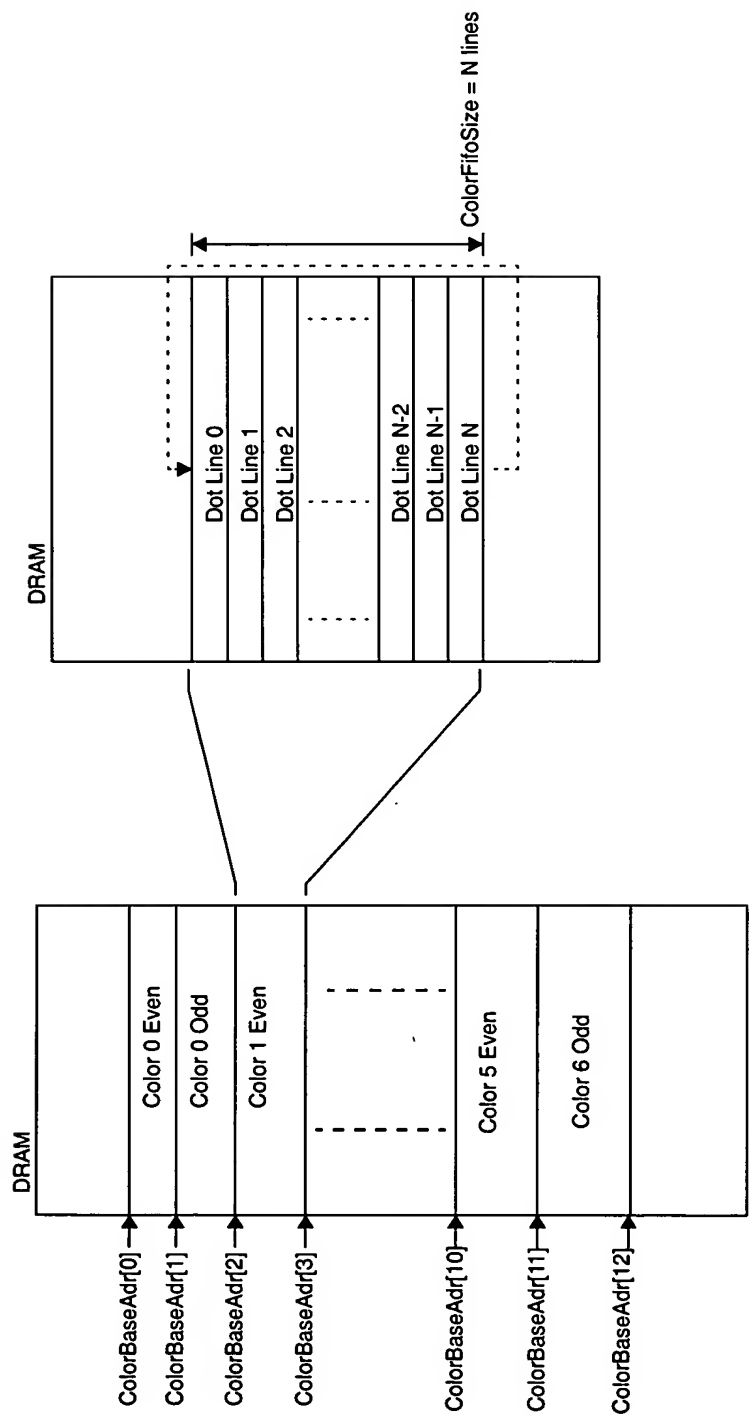


FIG. 272

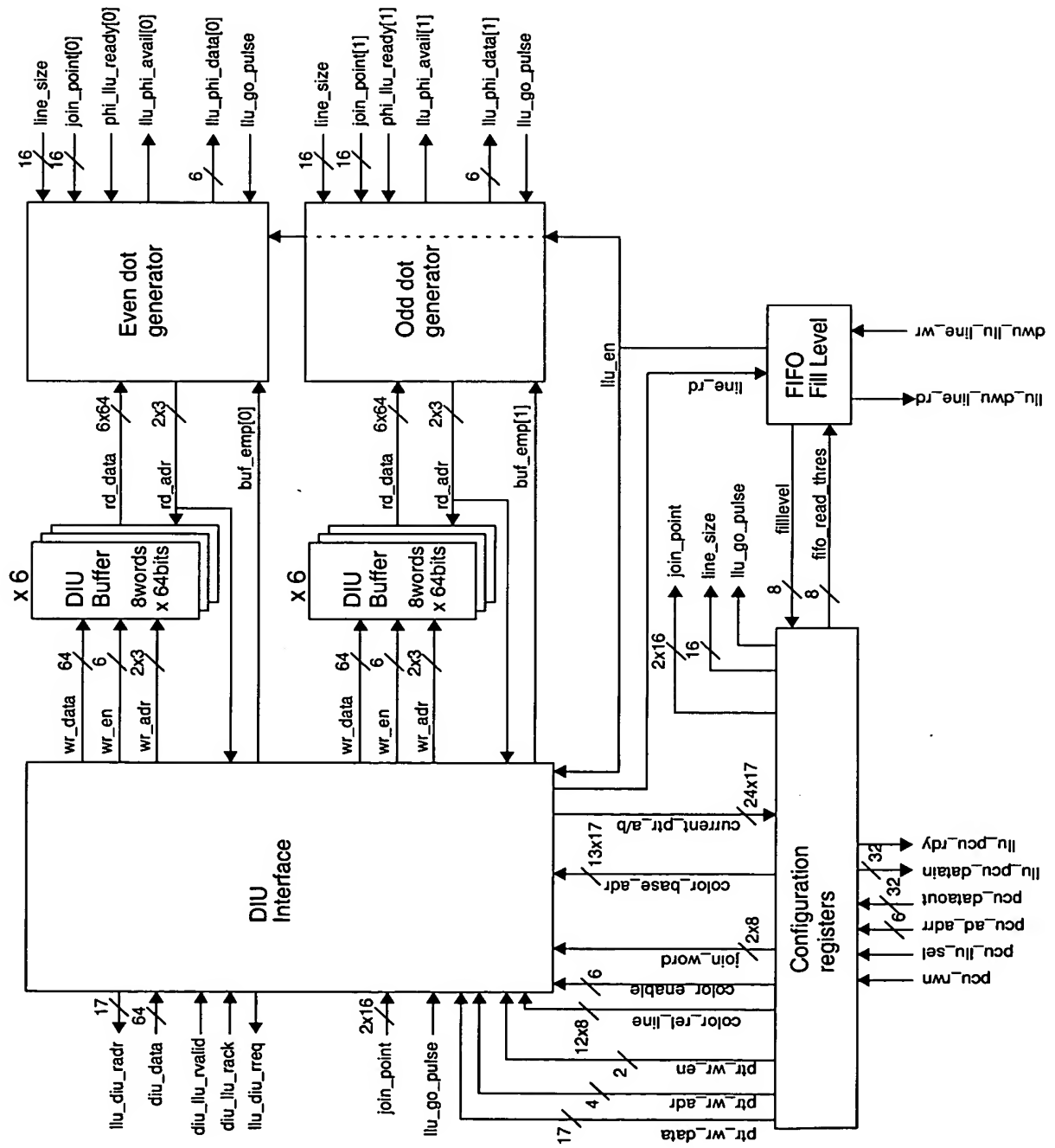


FIG. 273

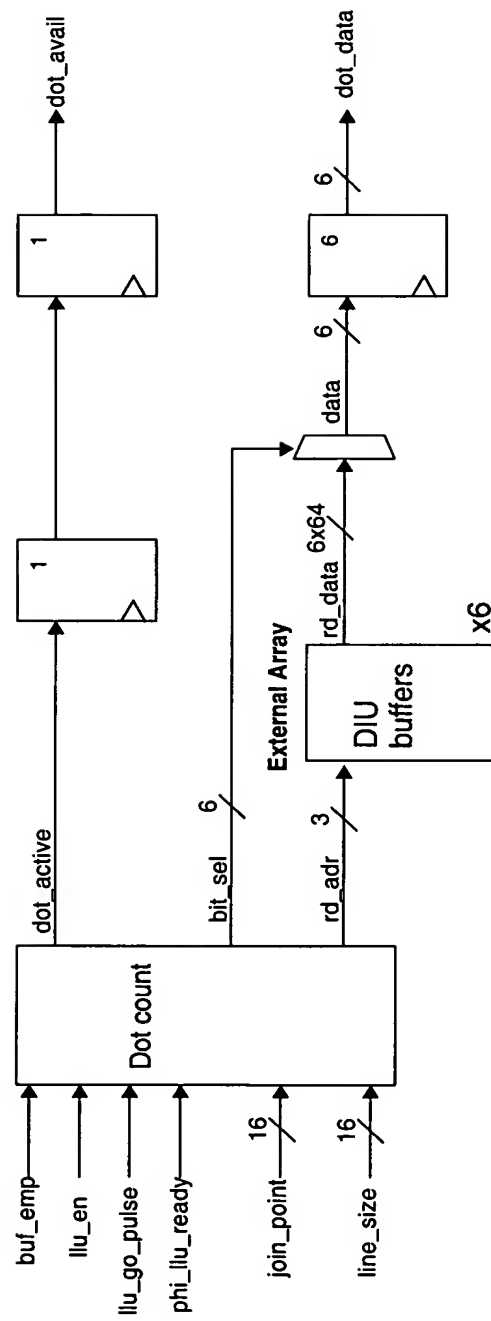


FIG. 274

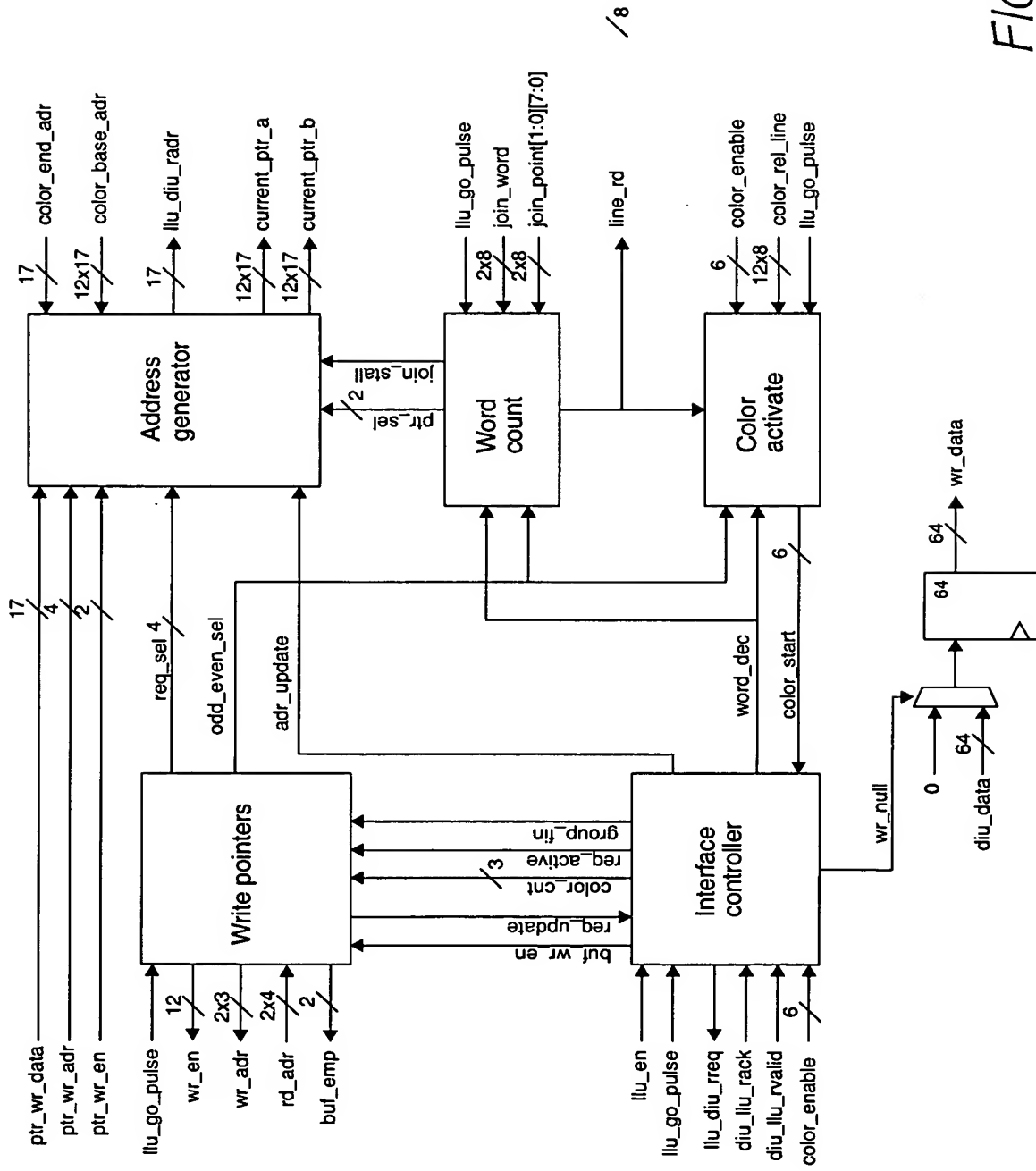


FIG. 275

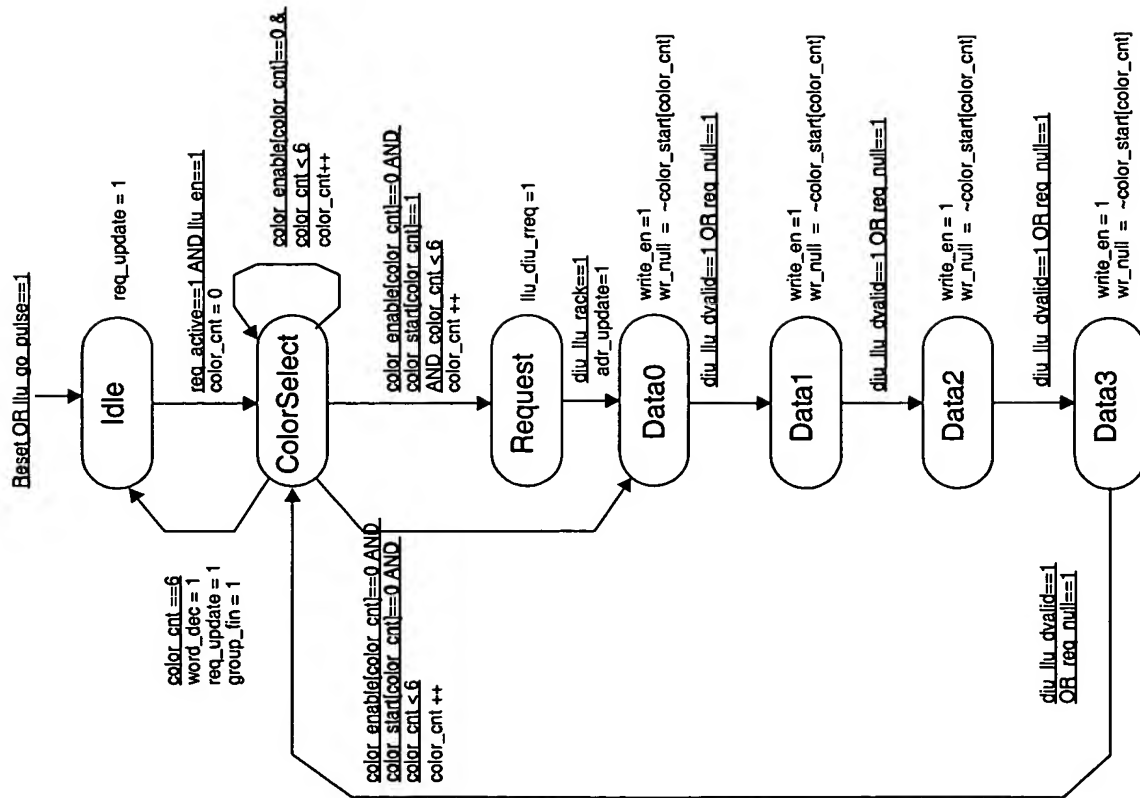


FIG. 276

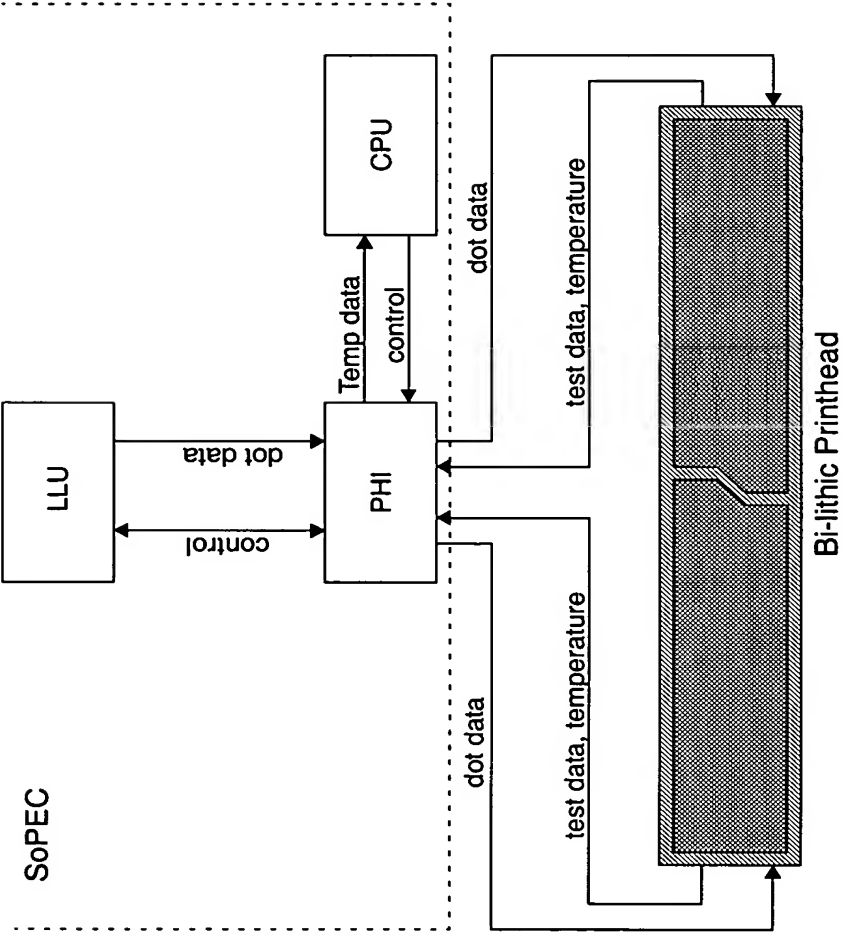


FIG. 277

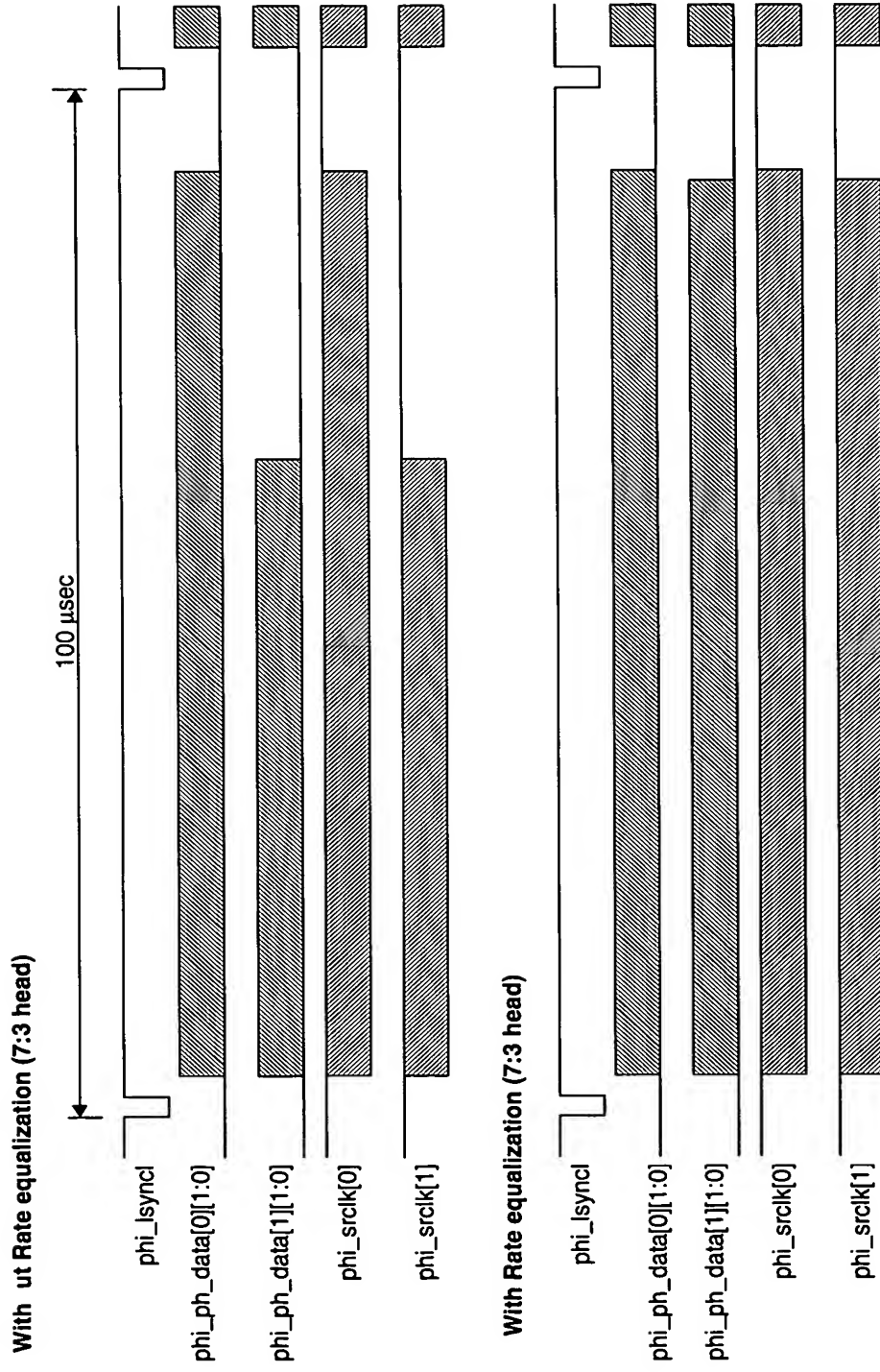
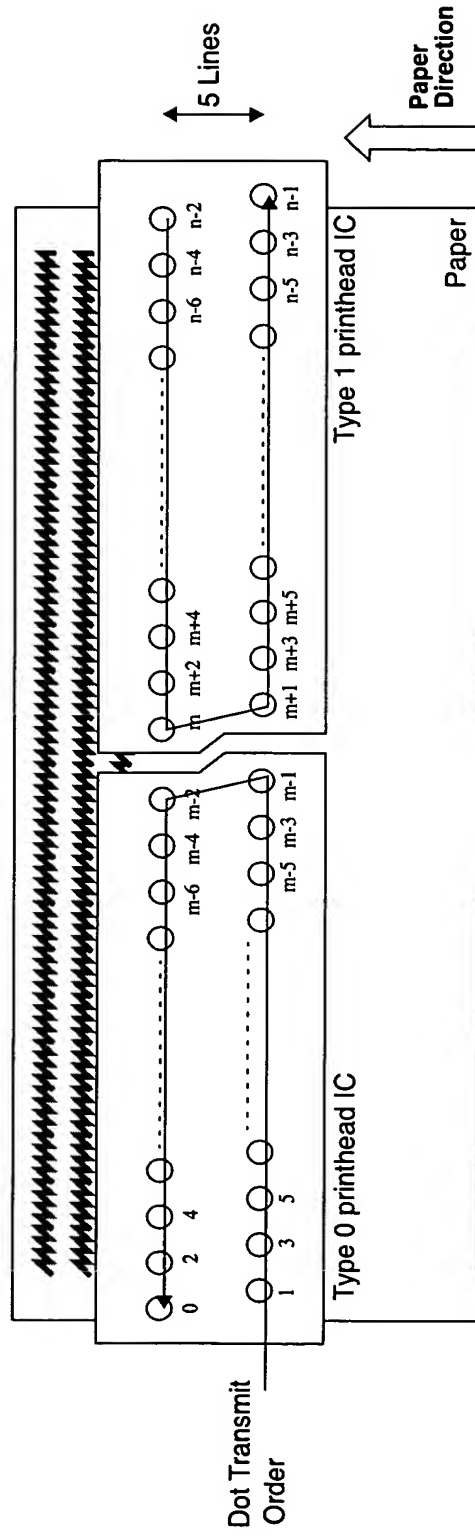


FIG. 279



M - Midway point in dots
 N - Number of dots in a line

Note: Paper passing under printhead

FIG. 280

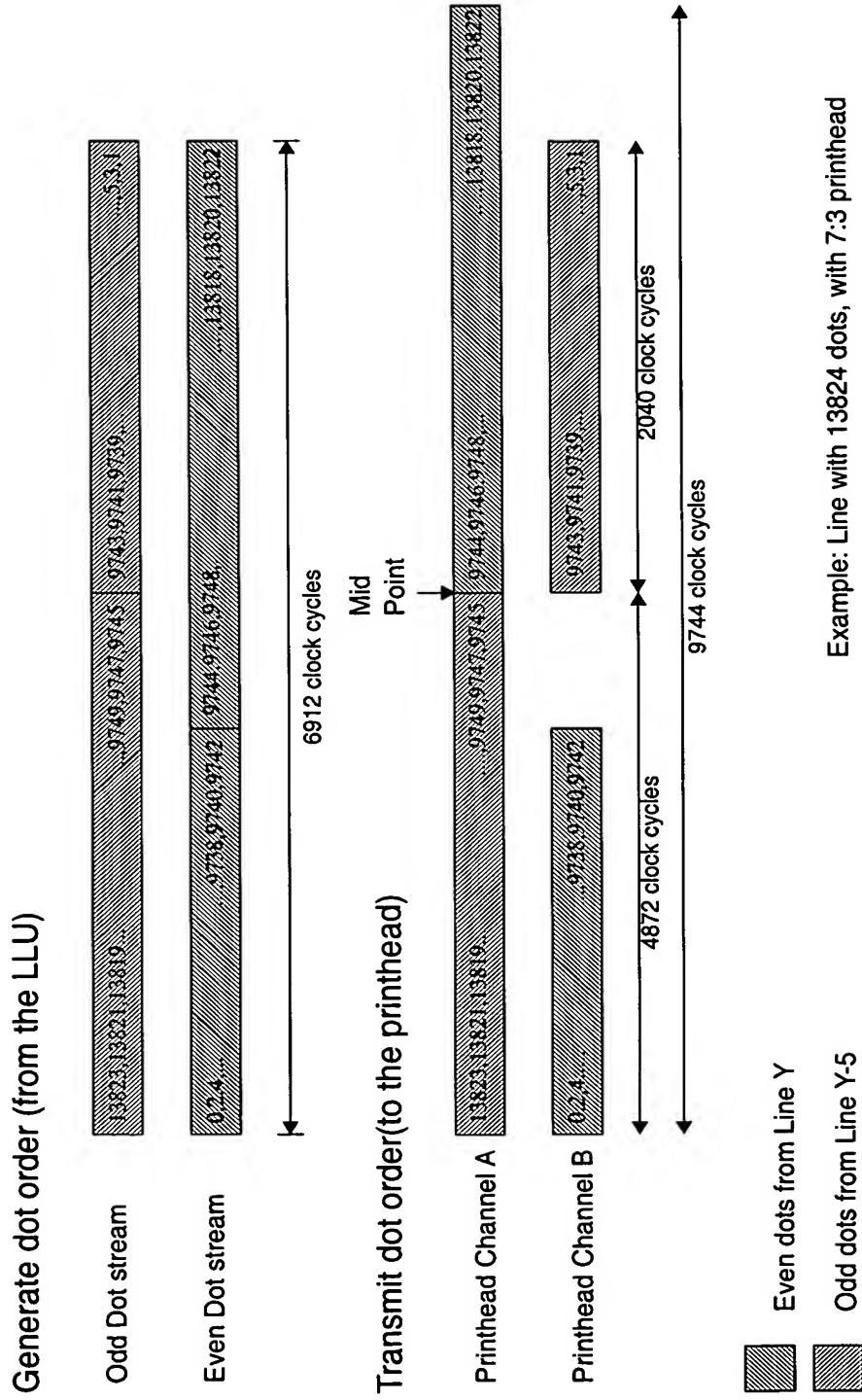


FIG. 281

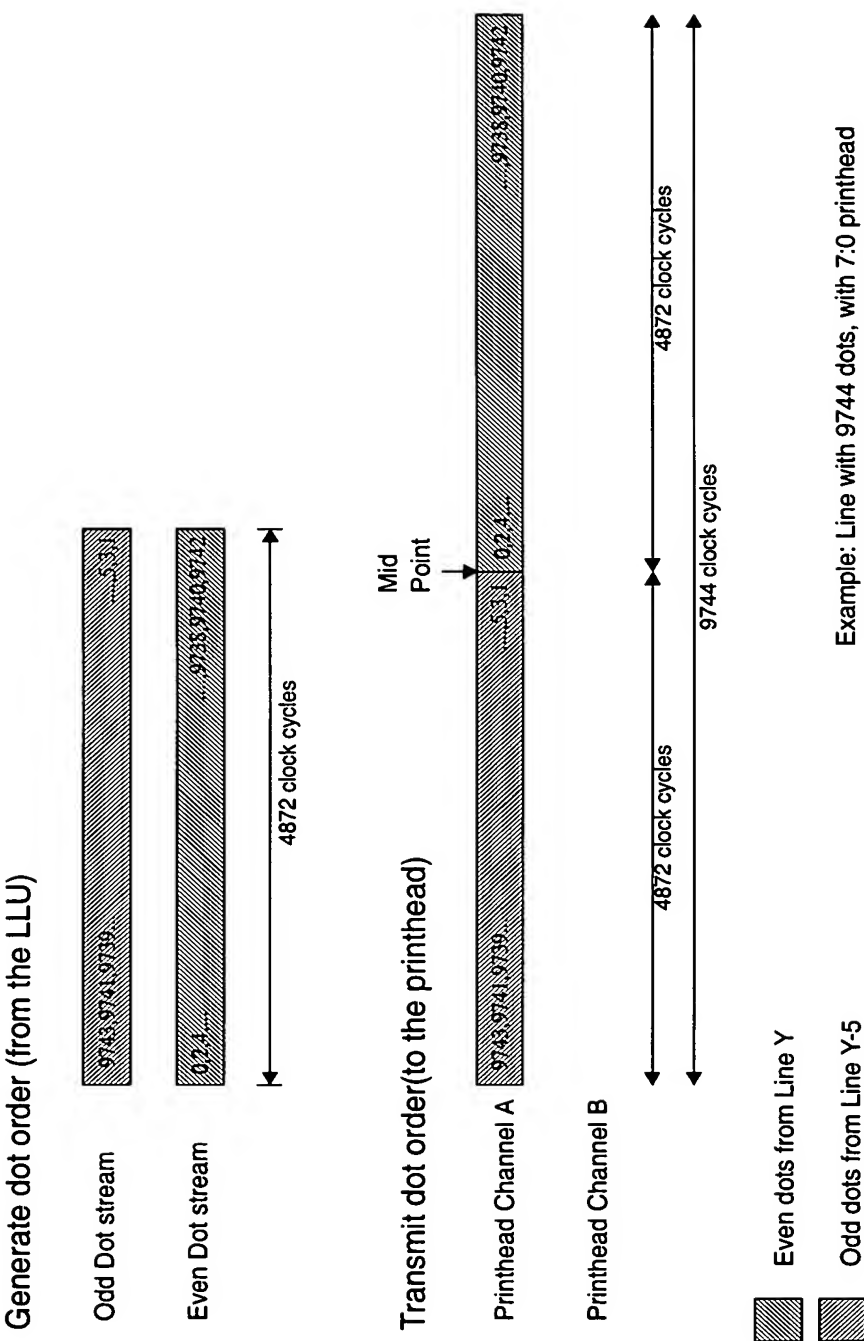


FIG. 282

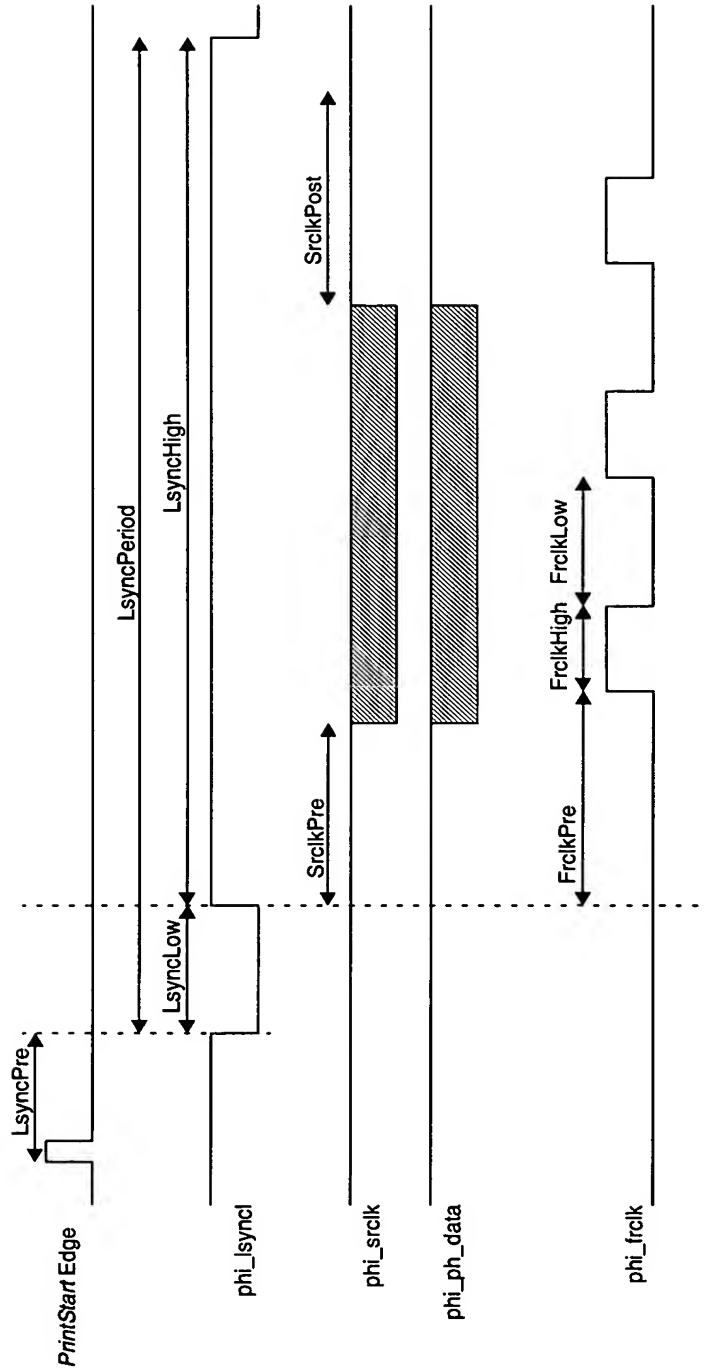


FIG. 283

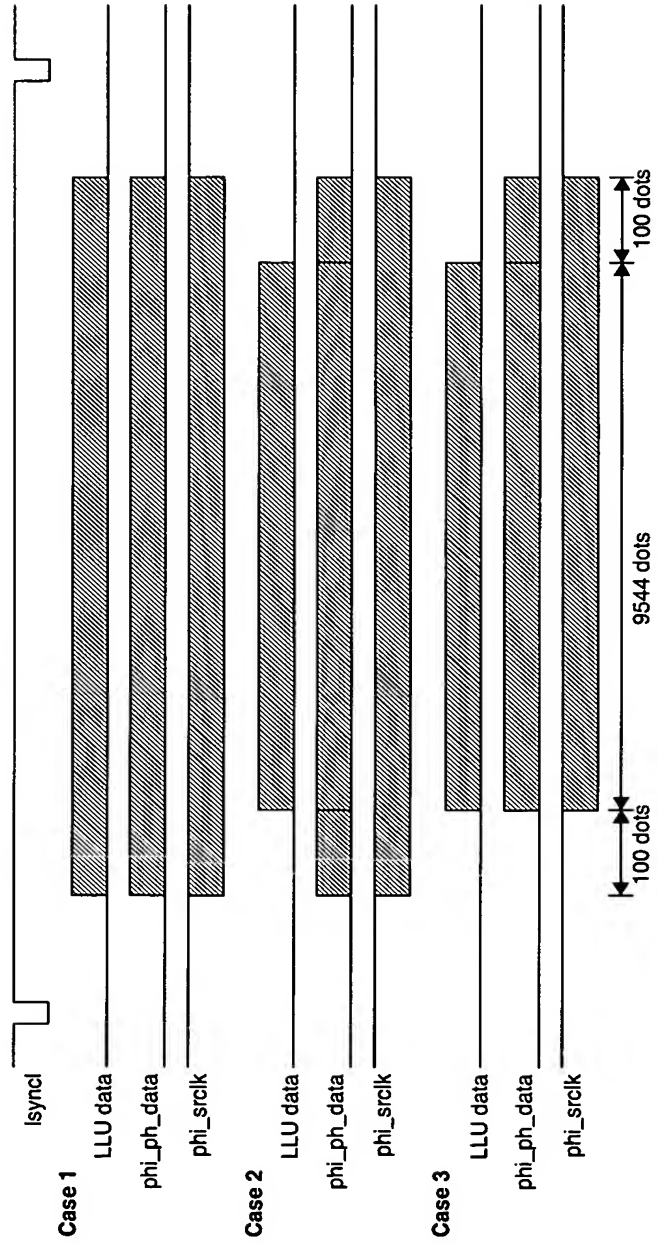
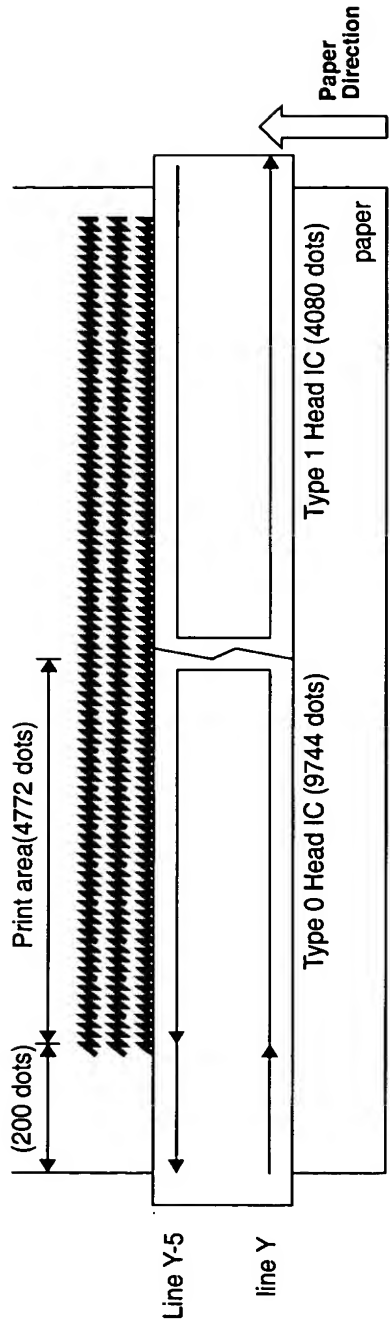


FIG. 284

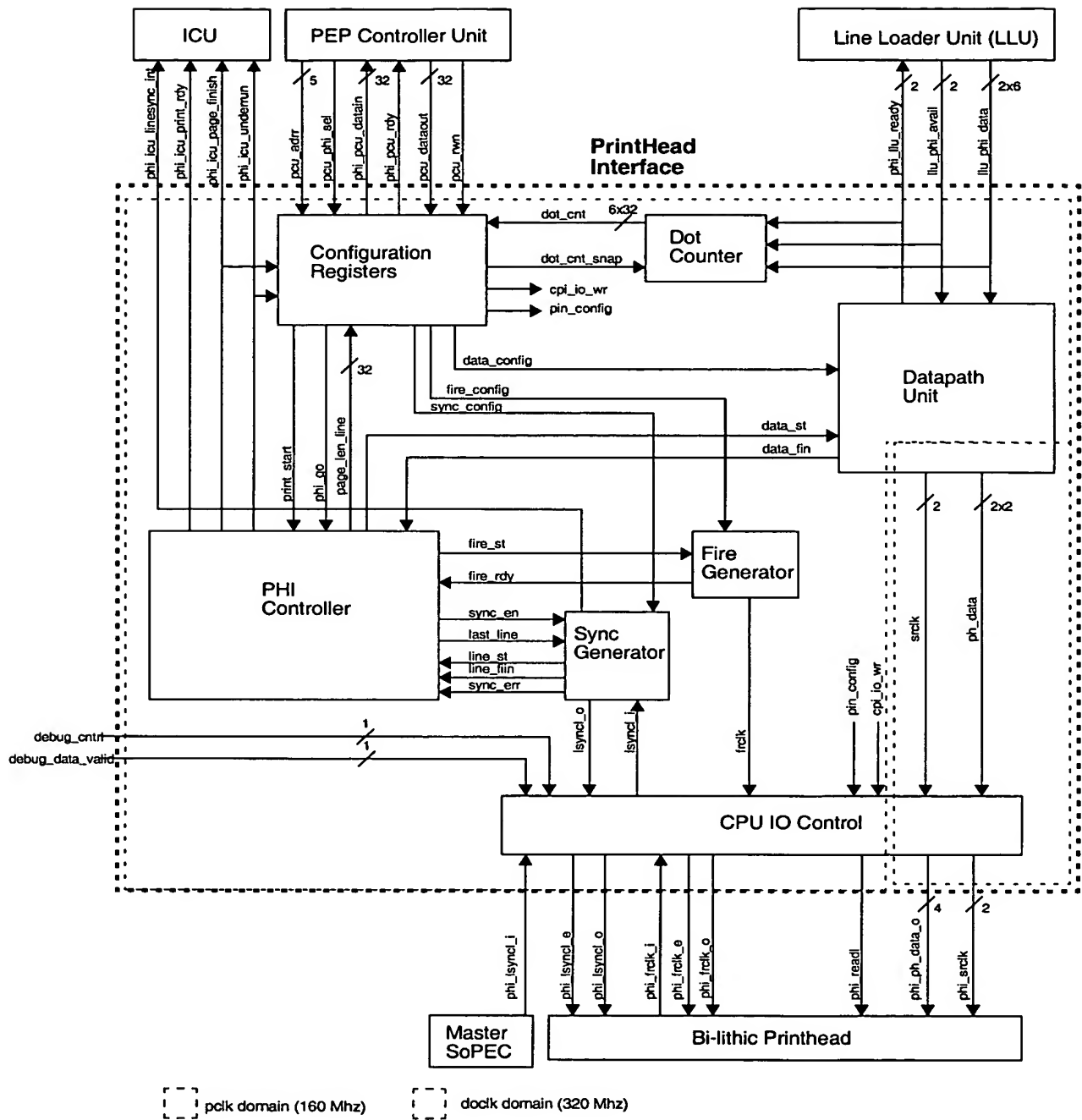


FIG. 285

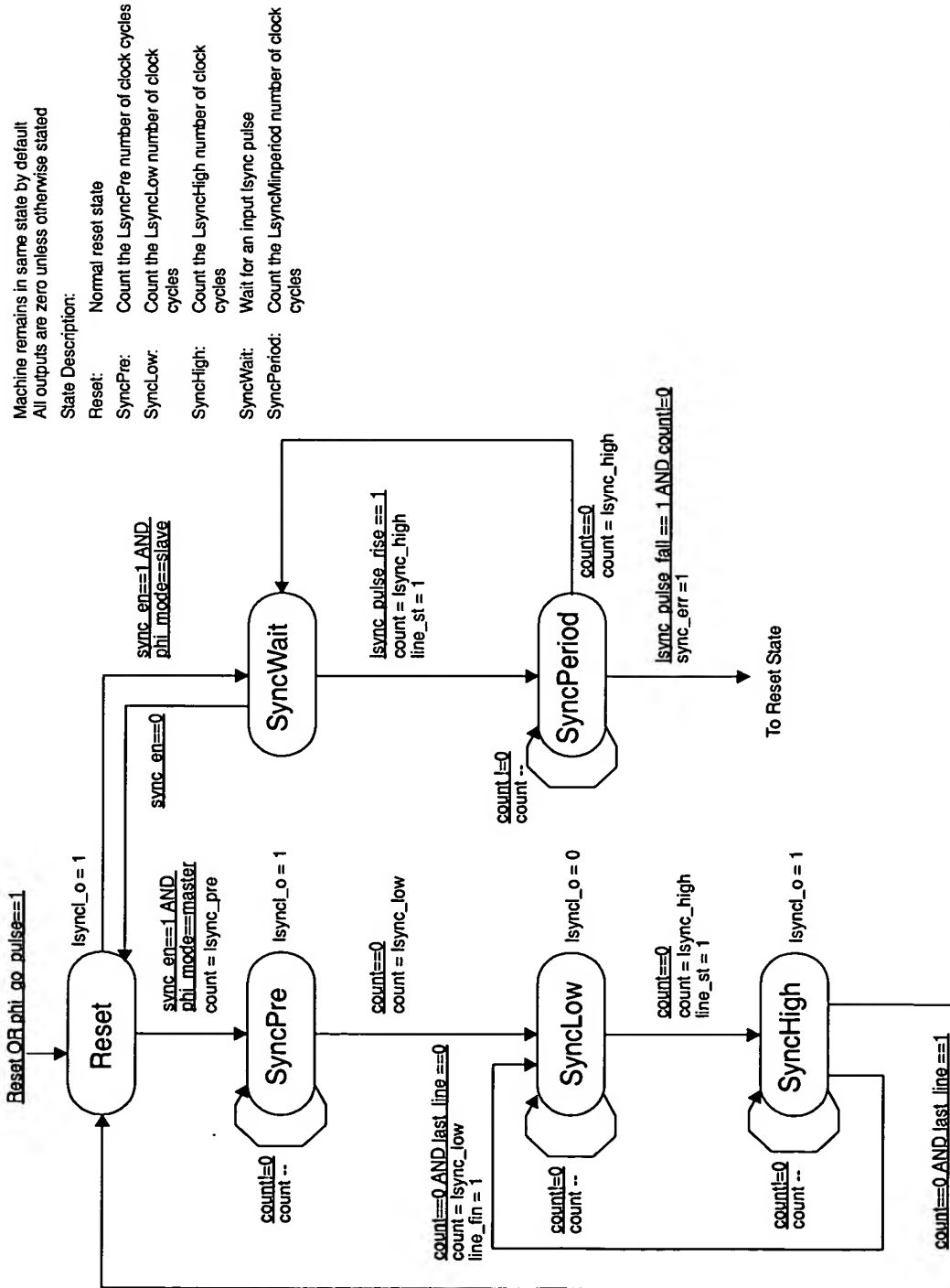


FIG. 286

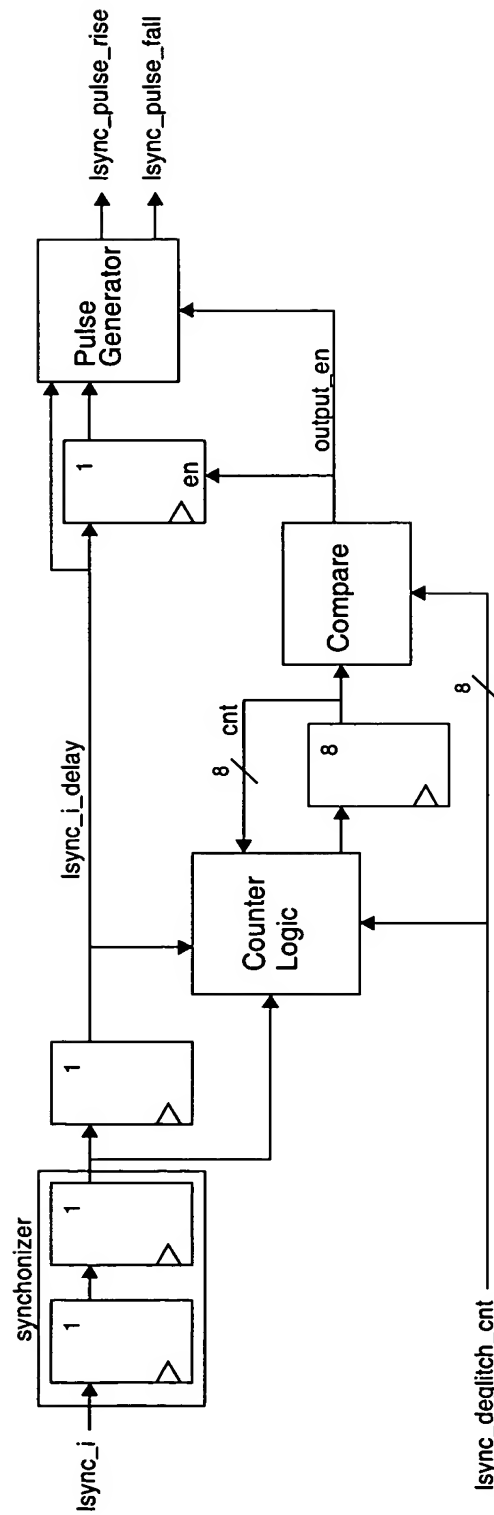


FIG. 287

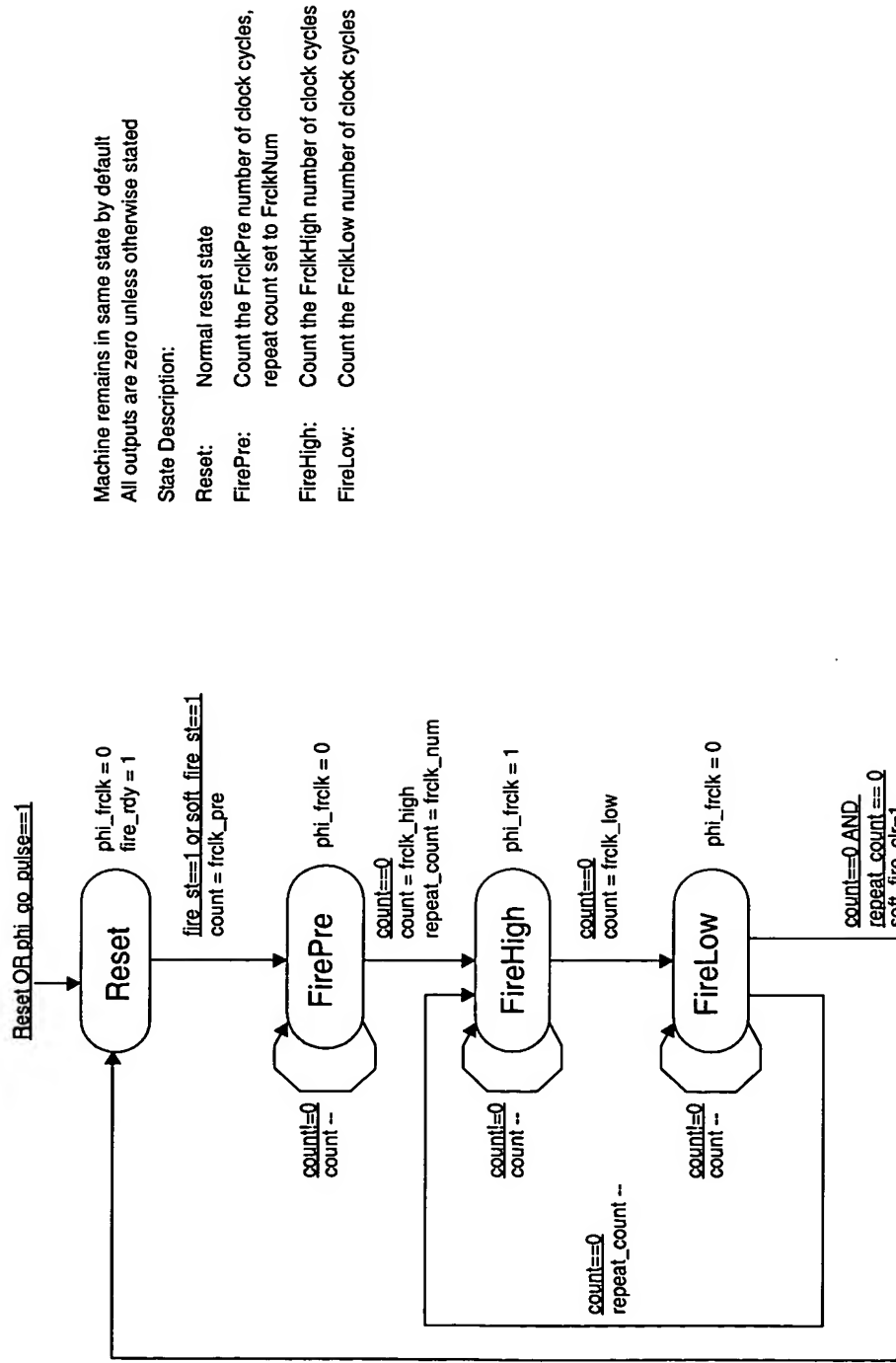


FIG. 288

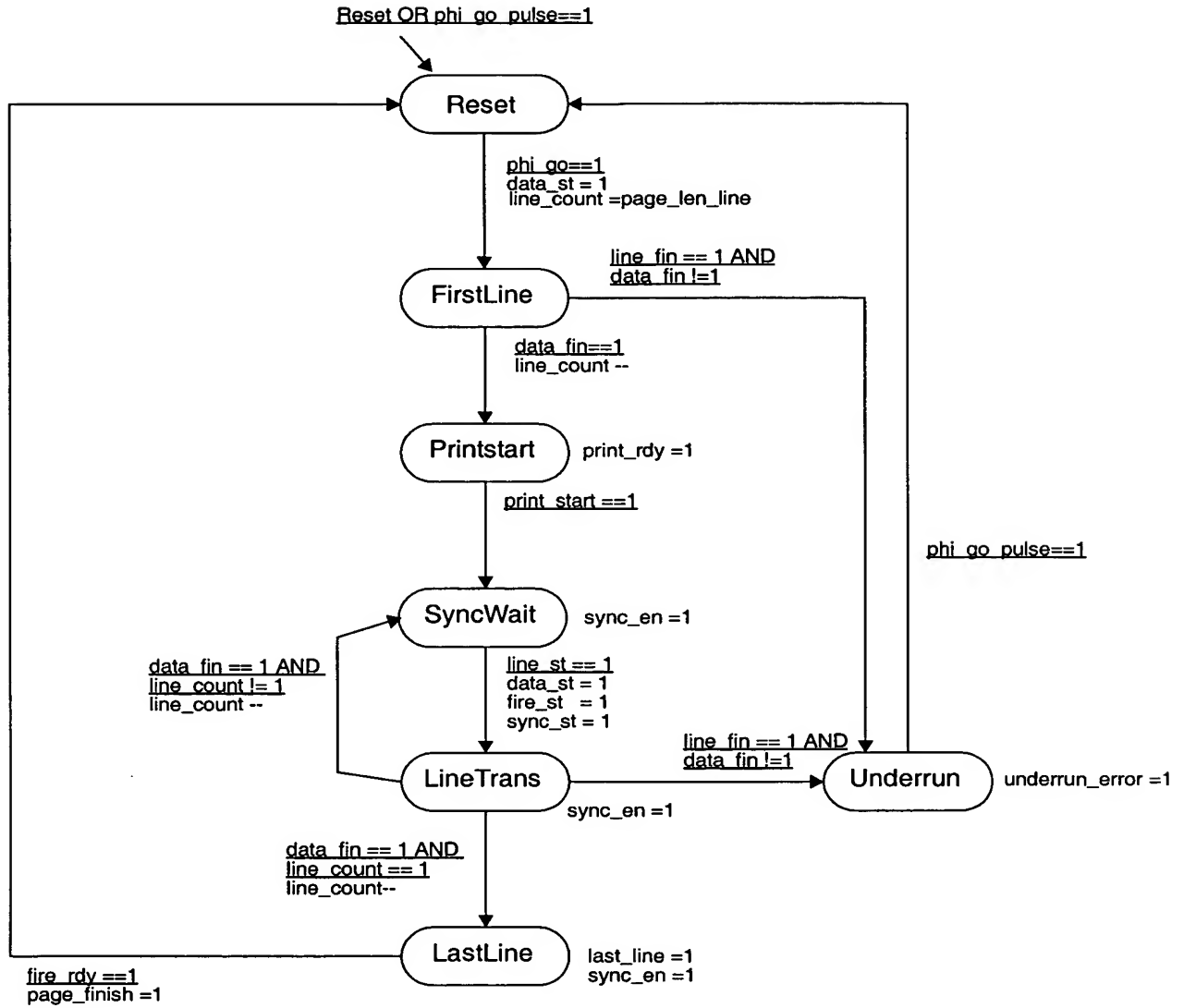


FIG. 289

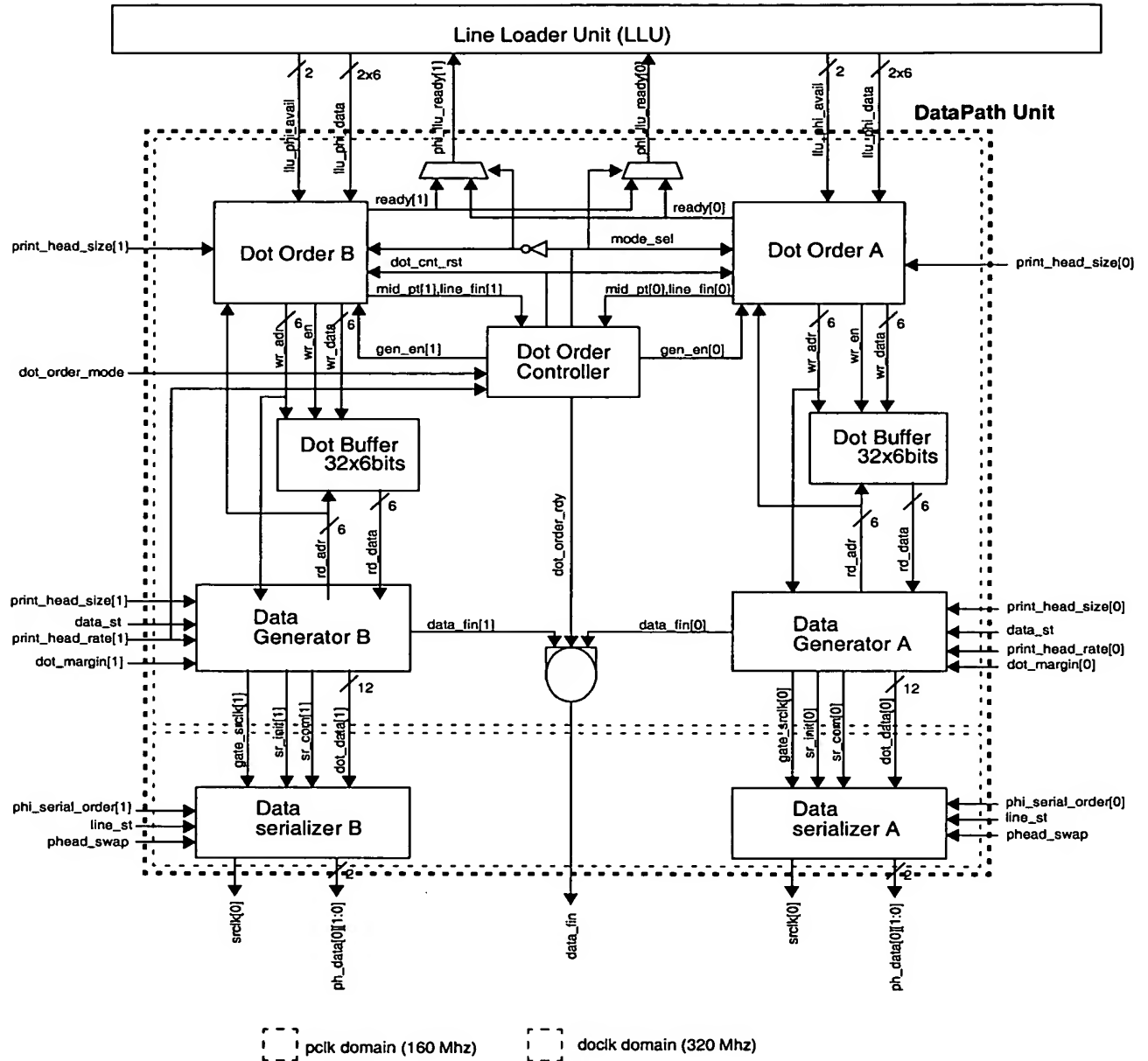


FIG. 290

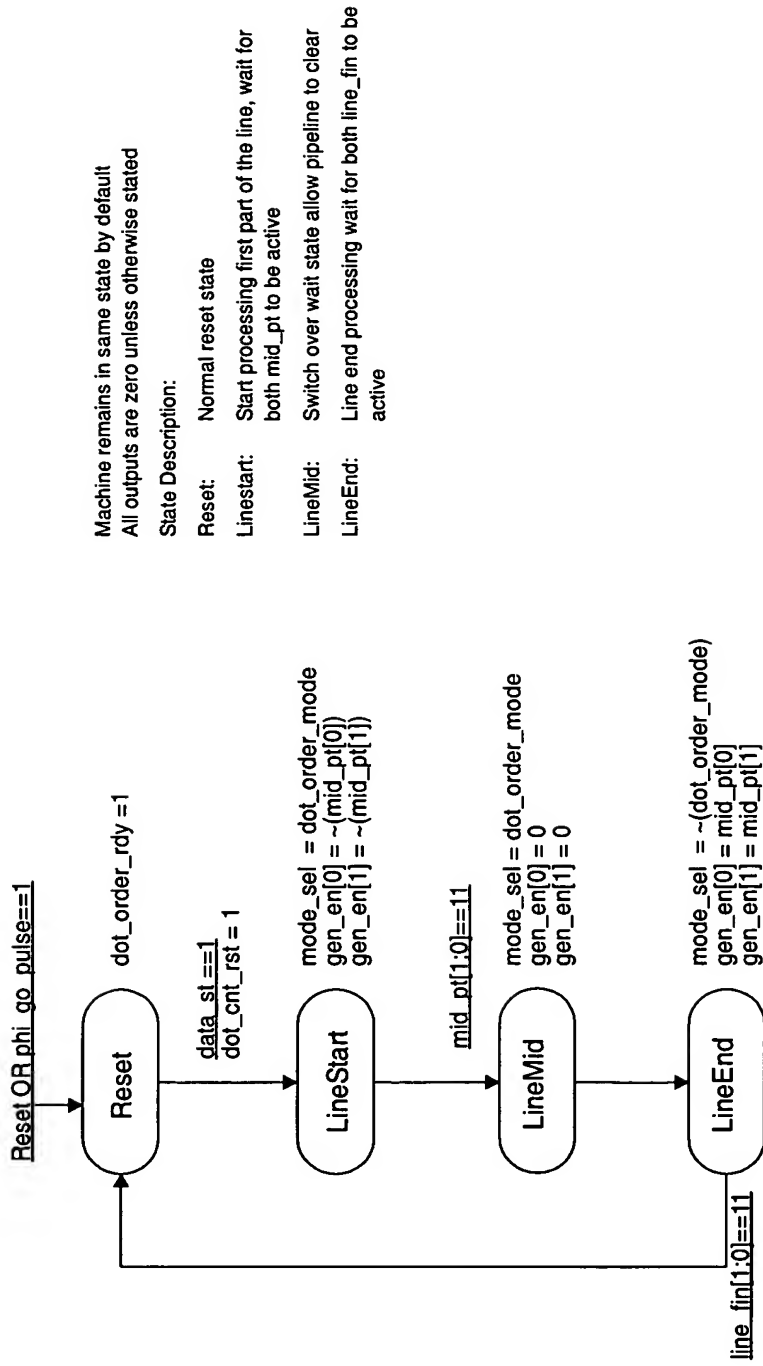


FIG. 291

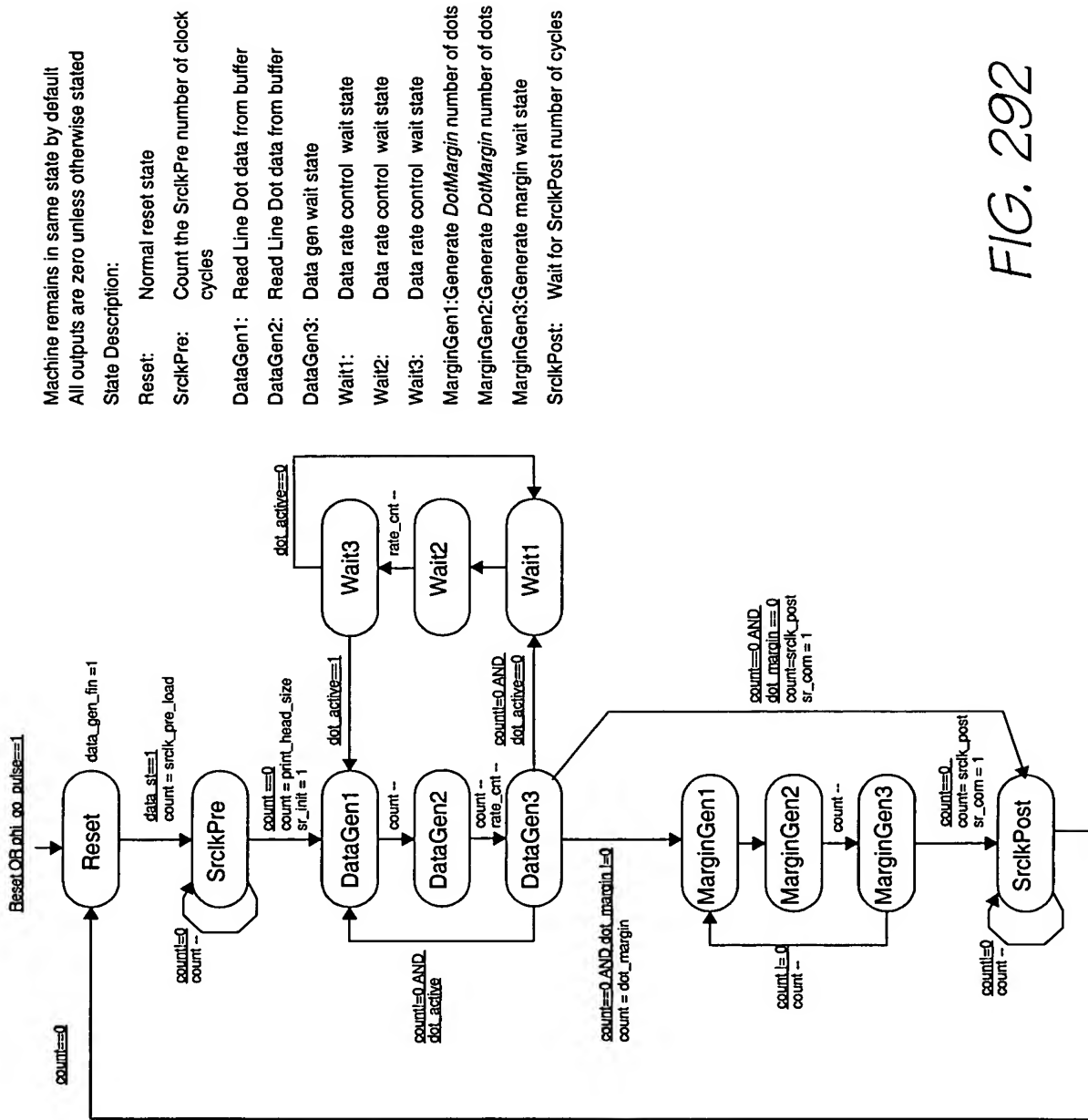


FIG. 292

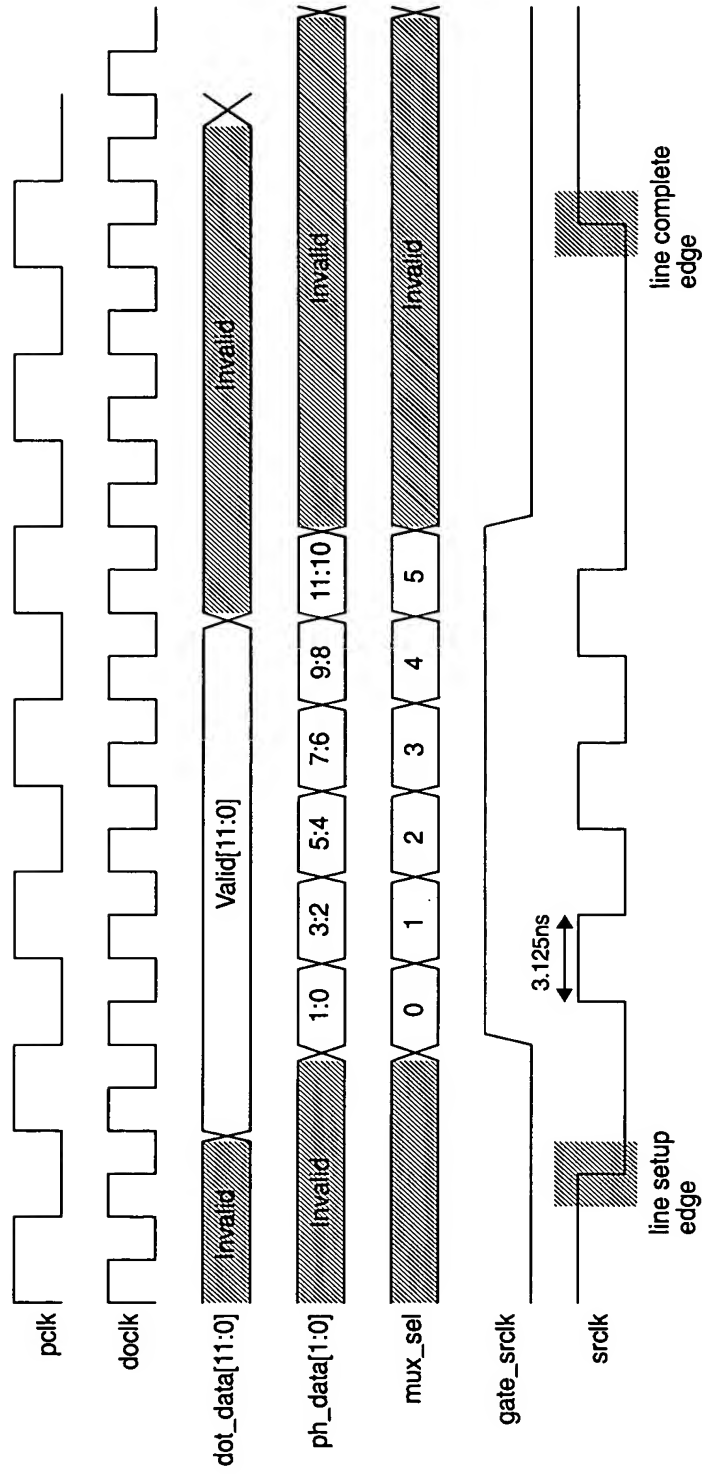


FIG. 293

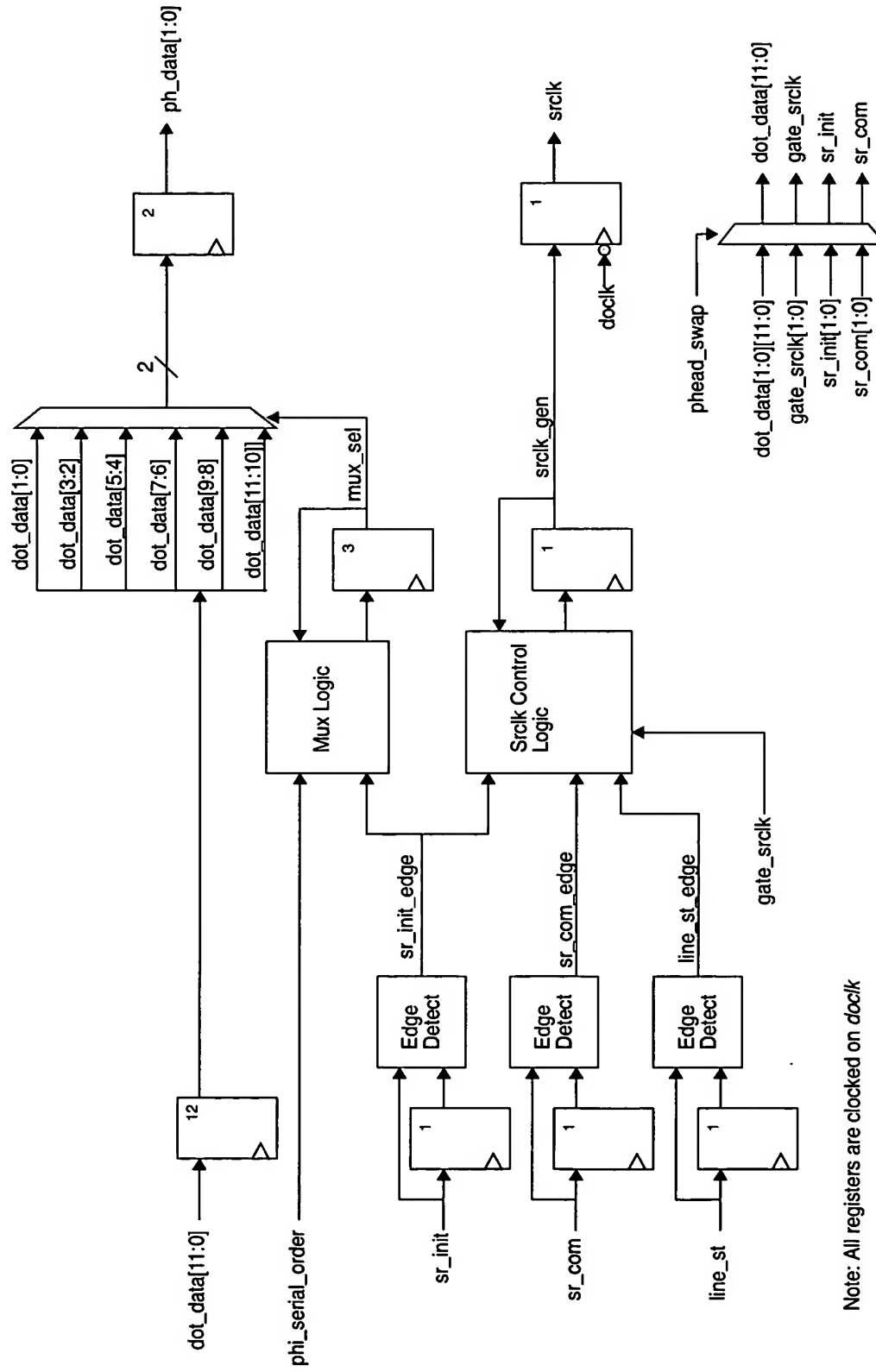


FIG. 294

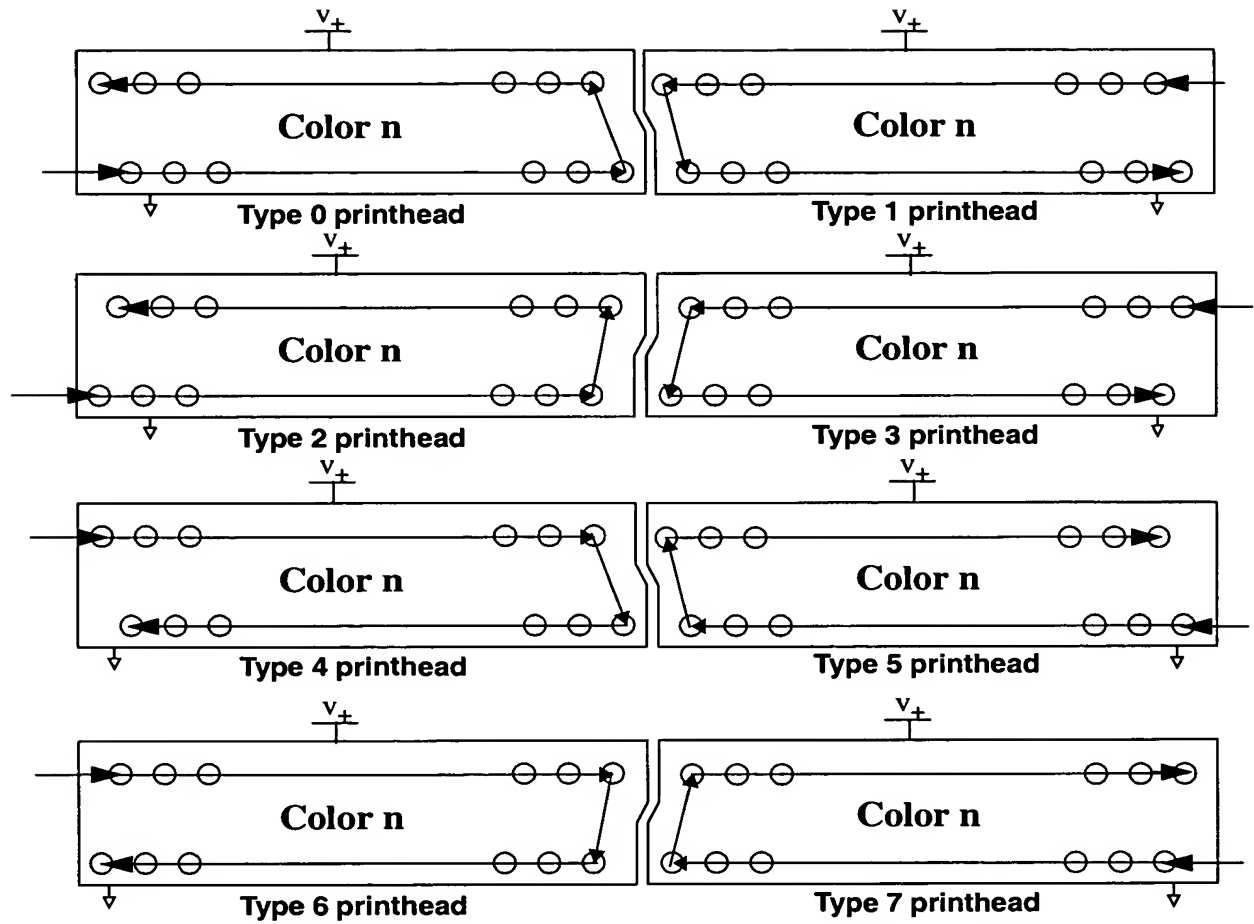


FIG. 295

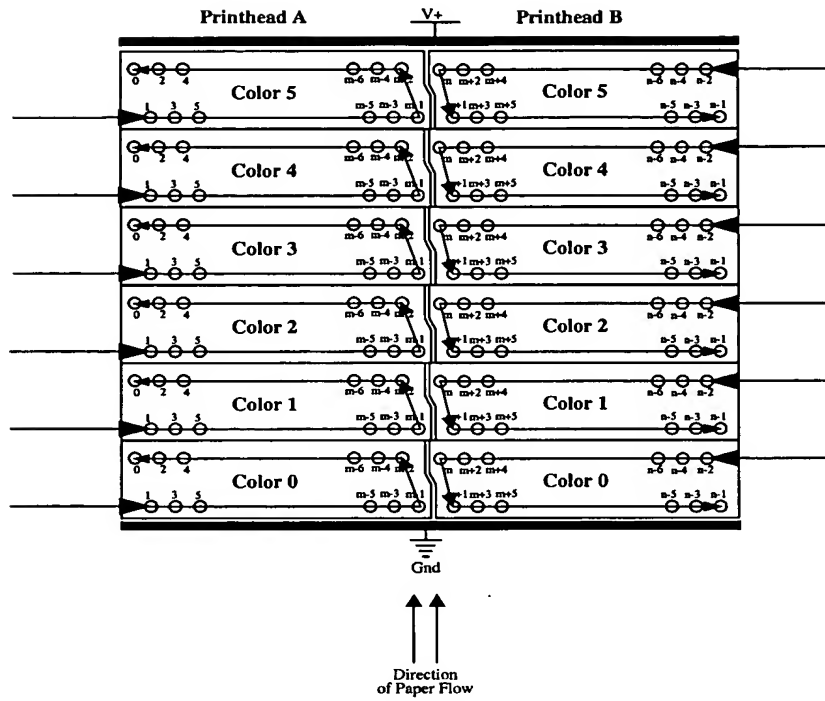


FIG. 296

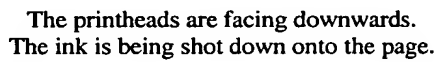


FIG. 297

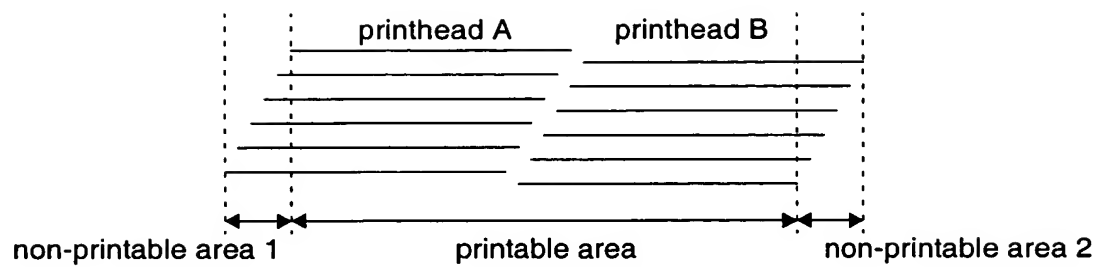


FIG. 298

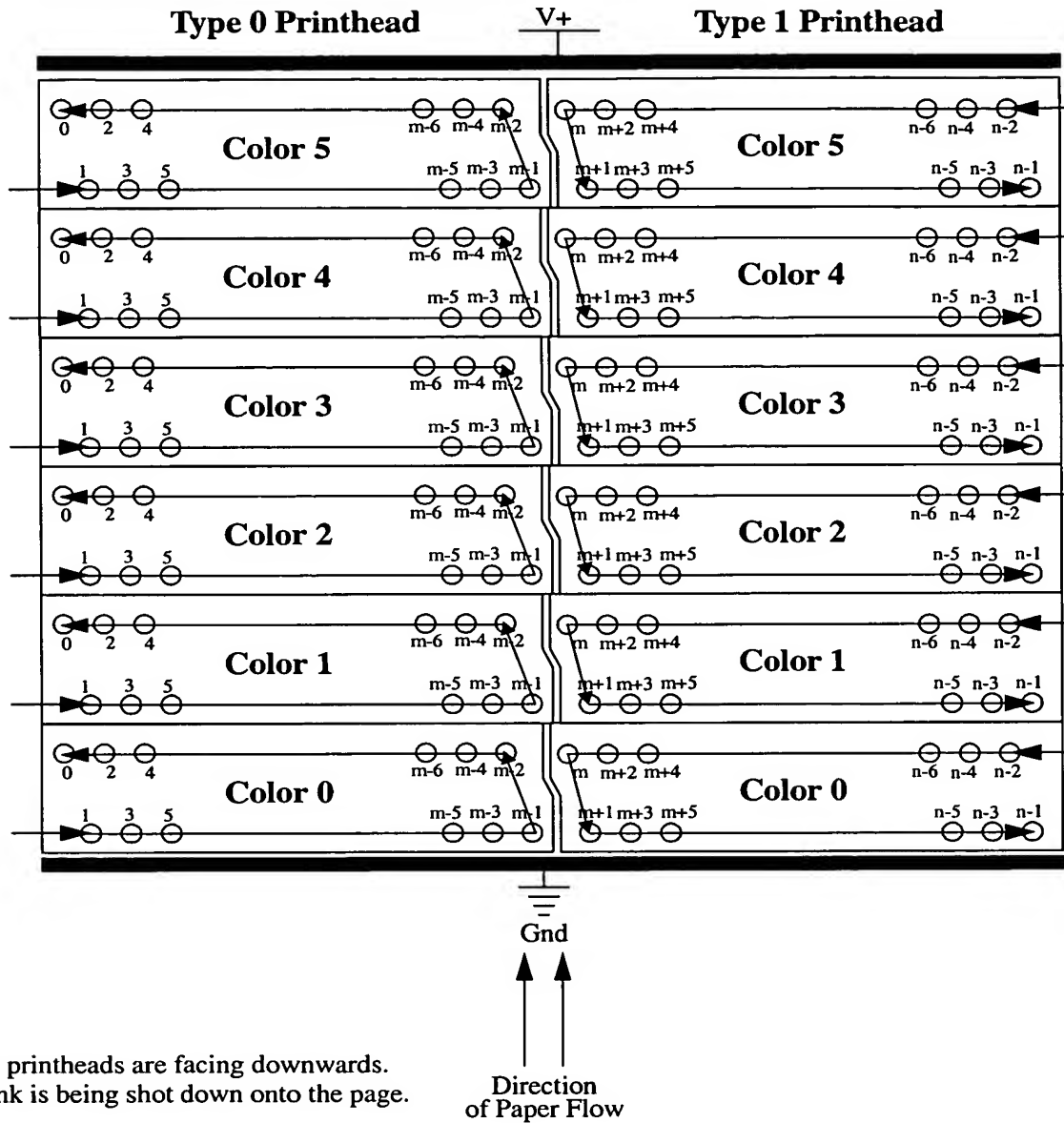


FIG. 299

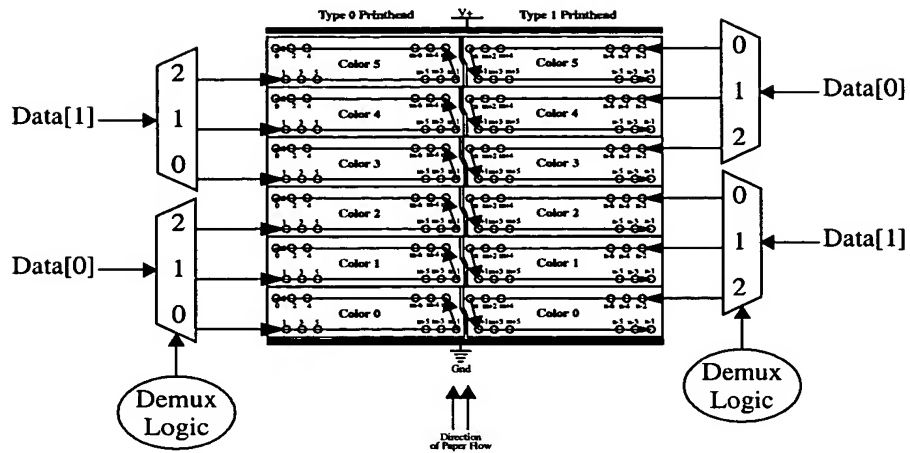


FIG. 300

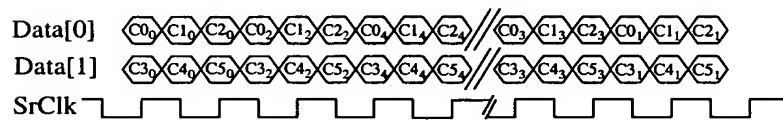


FIG. 301

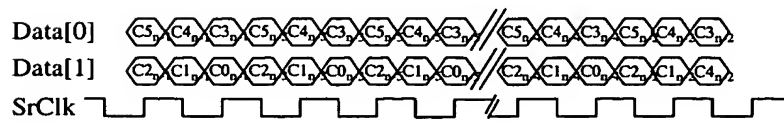


FIG. 302

The printheads are facing downwards.
The ink is being shot down onto the page.

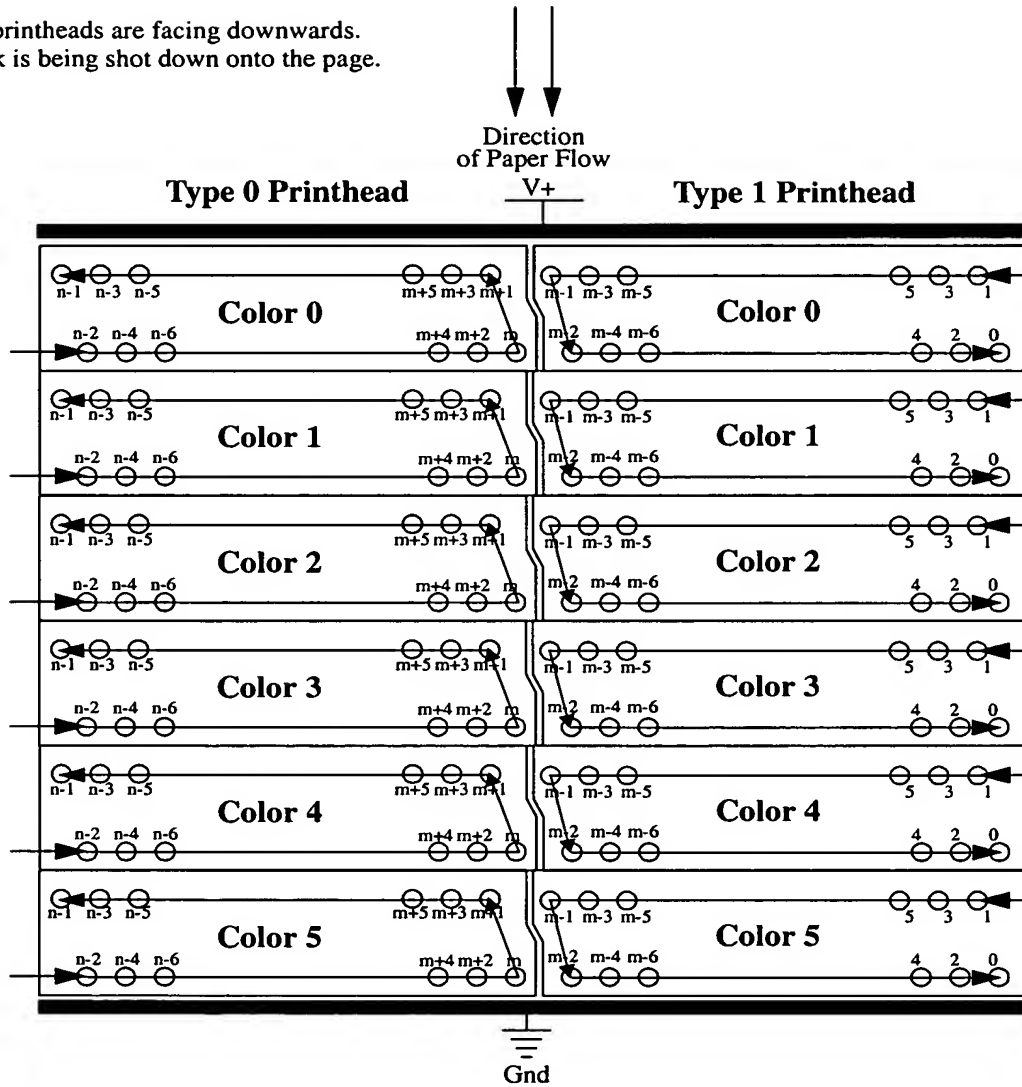


FIG. 303

261/331

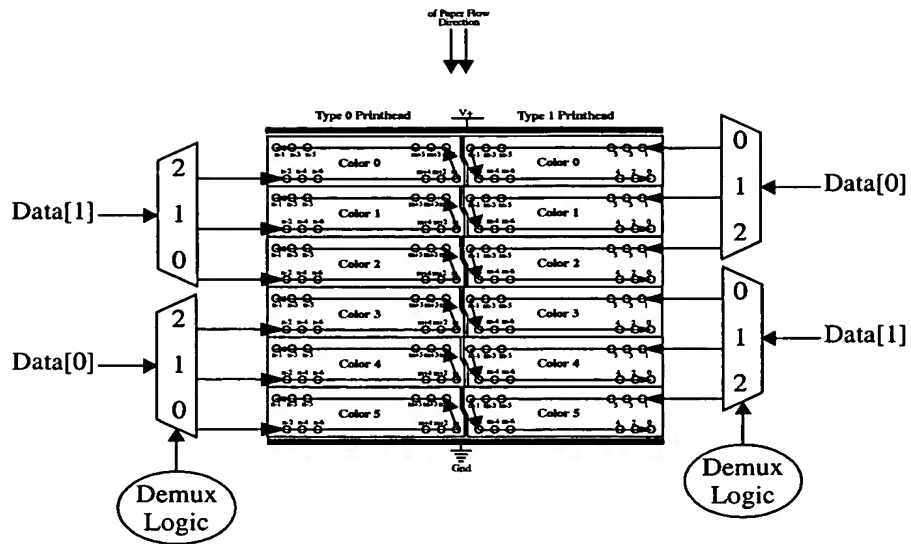


FIG. 304

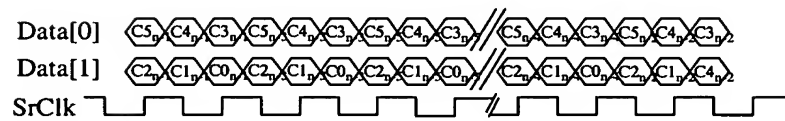


FIG. 305

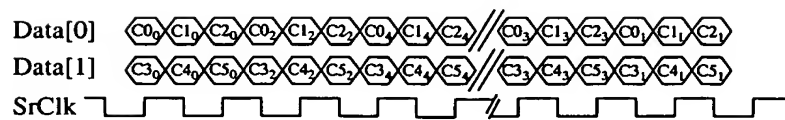


FIG. 306

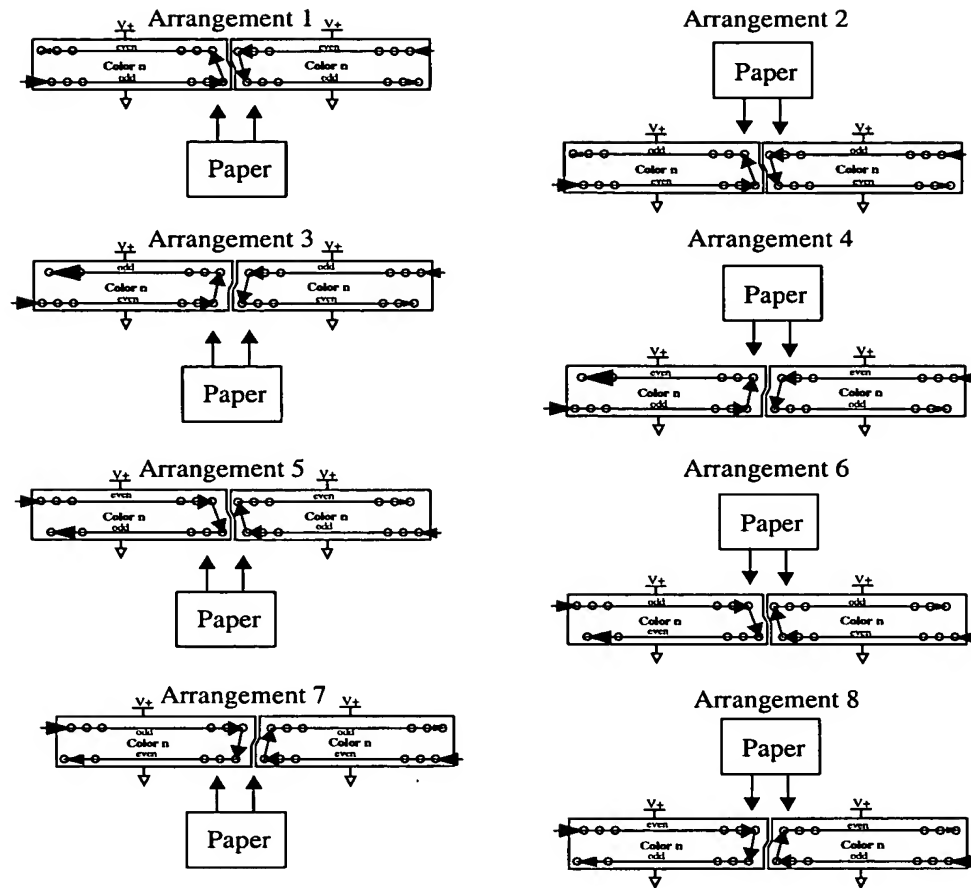


FIG. 307

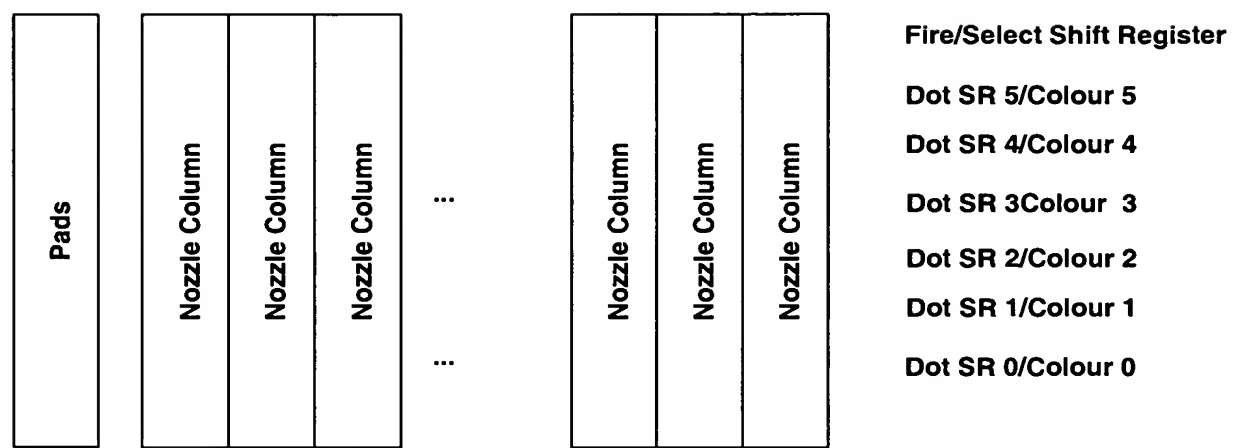


FIG. 308

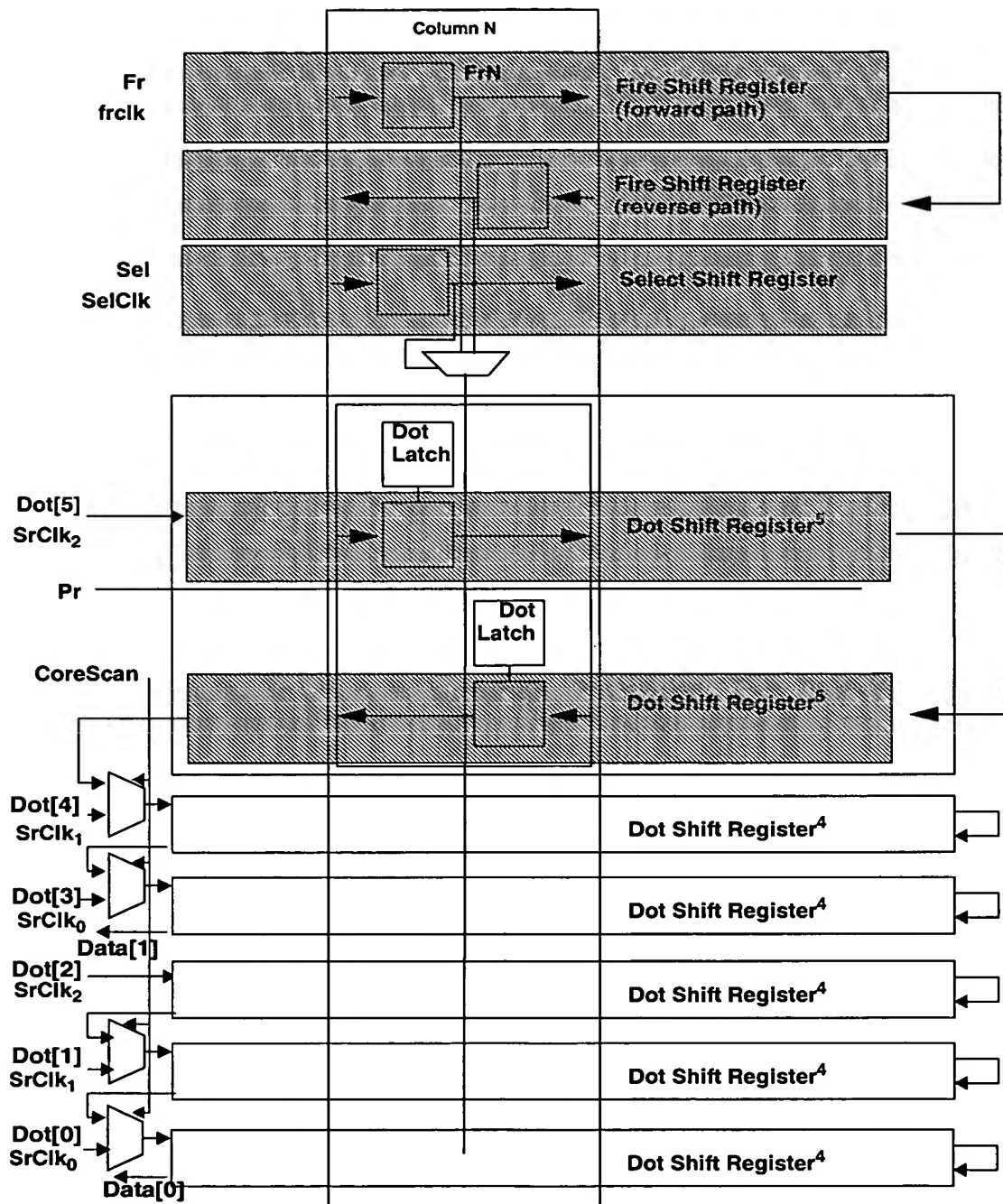


FIG. 309

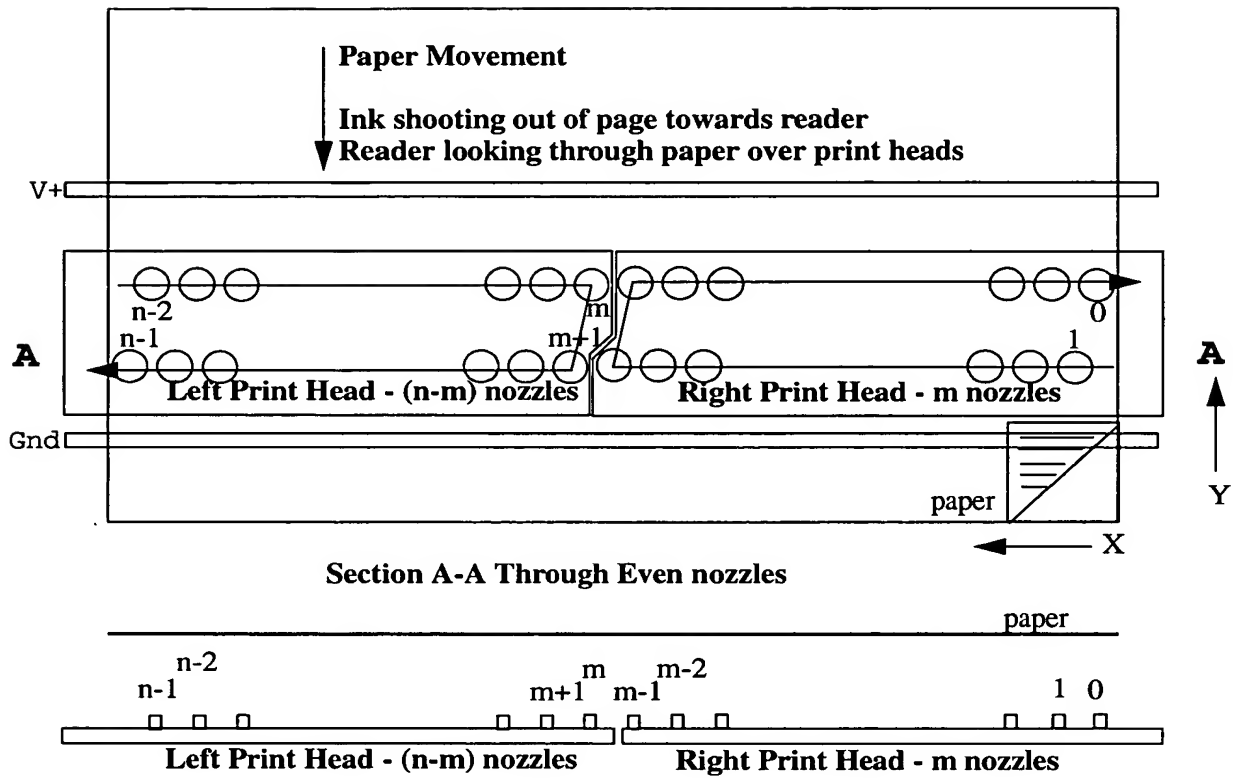


FIG. 310

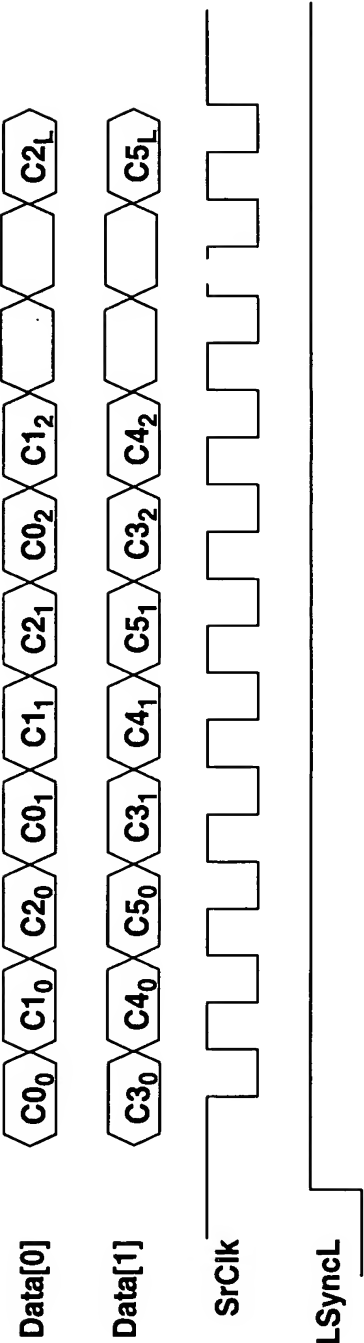
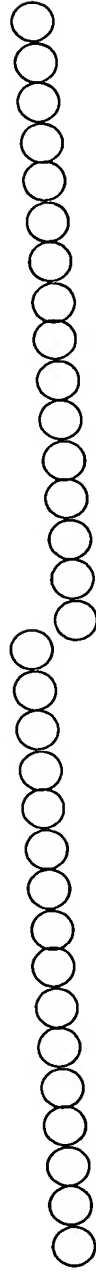
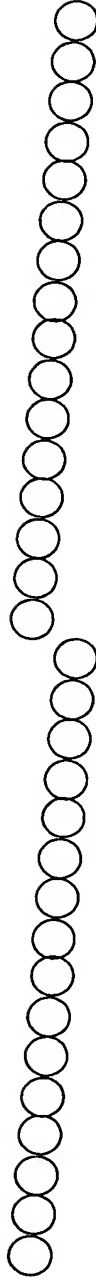


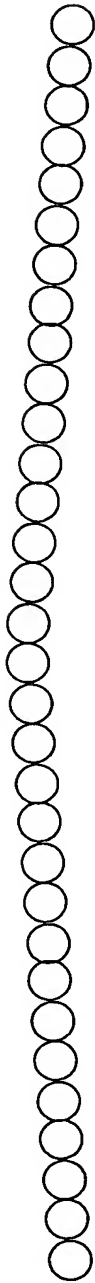
FIG. 311



a) Printing every n^{th} dot with all zero's in the fire select shift register



b) Printing every n^{th} dot with all one's in the fire select shift register



c) Printing every n^{th} dot with n zero's then n one's in the fire select shift registers

FIG. 312

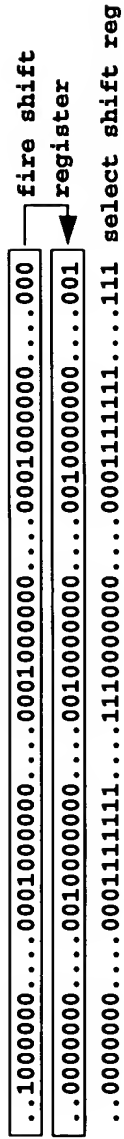


FIG. 313

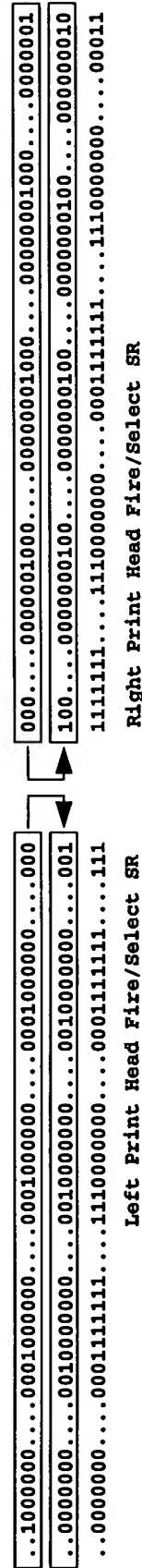


FIG. 314

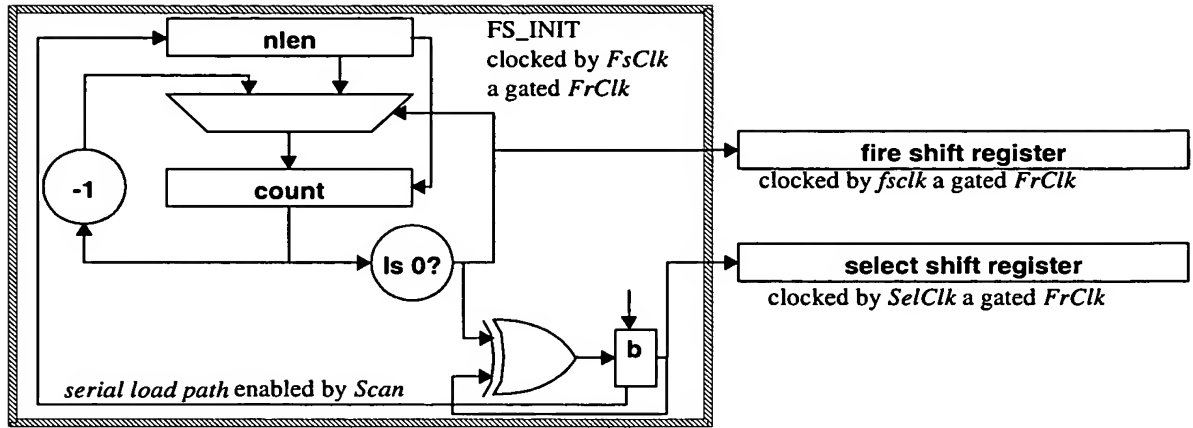


FIG. 315

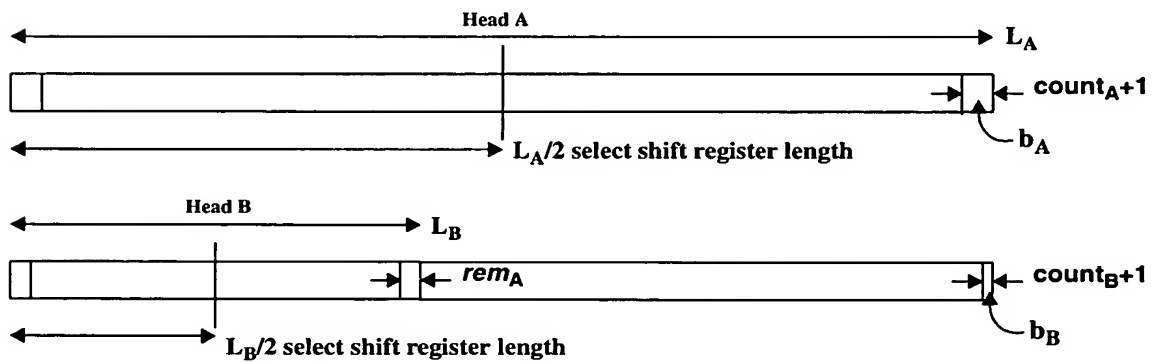


FIG. 316

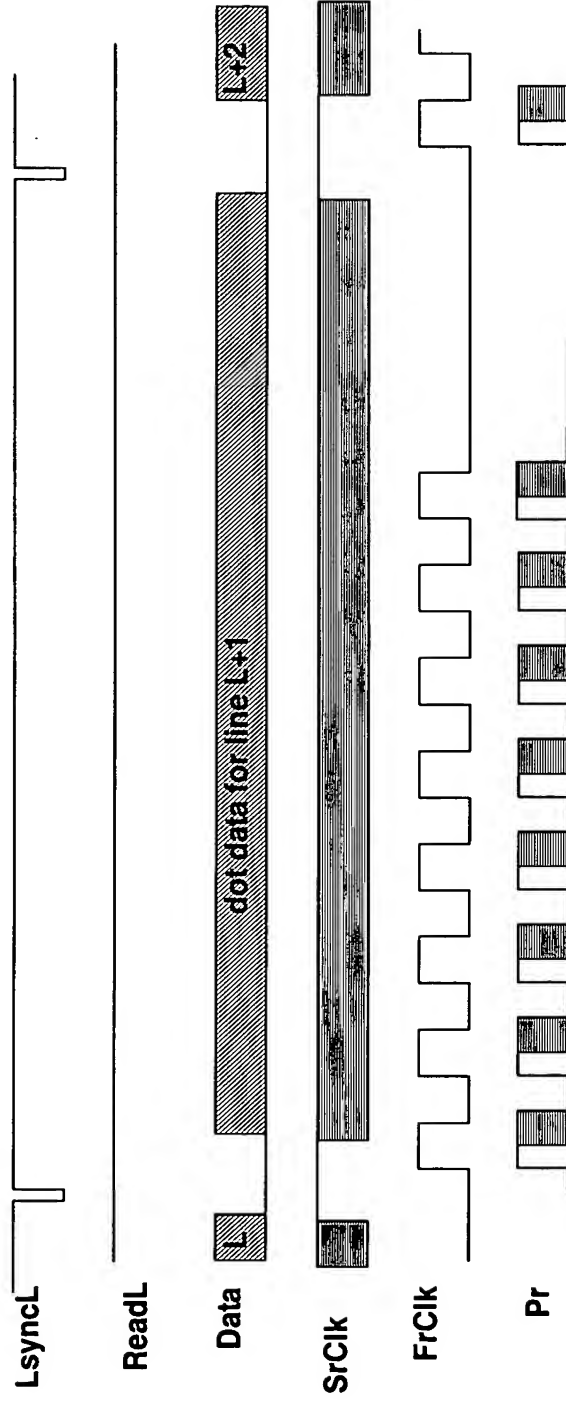


FIG. 317

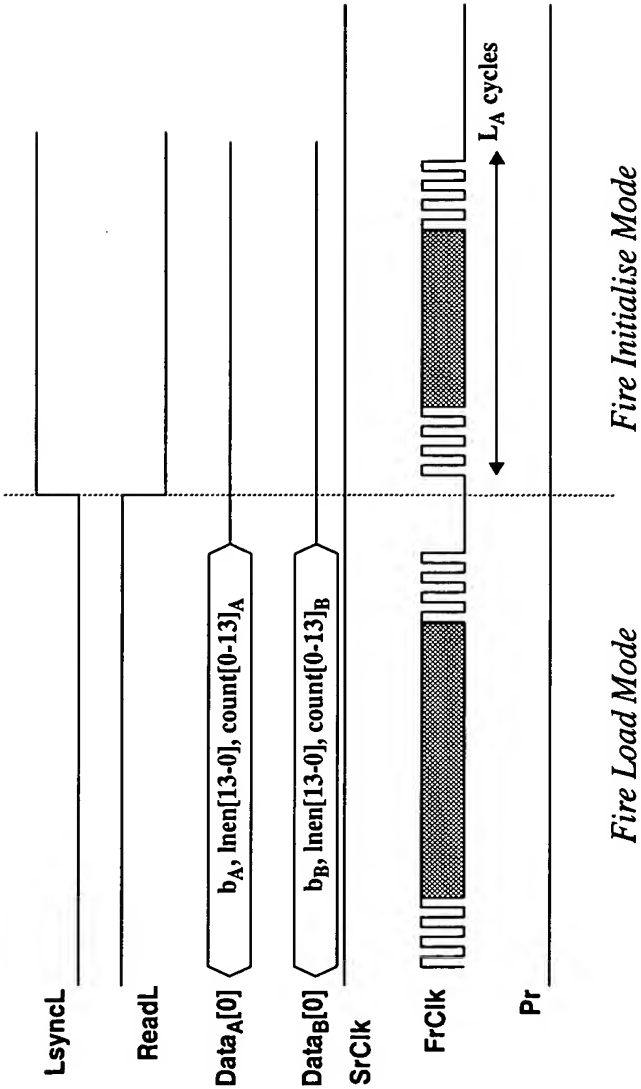


FIG. 318

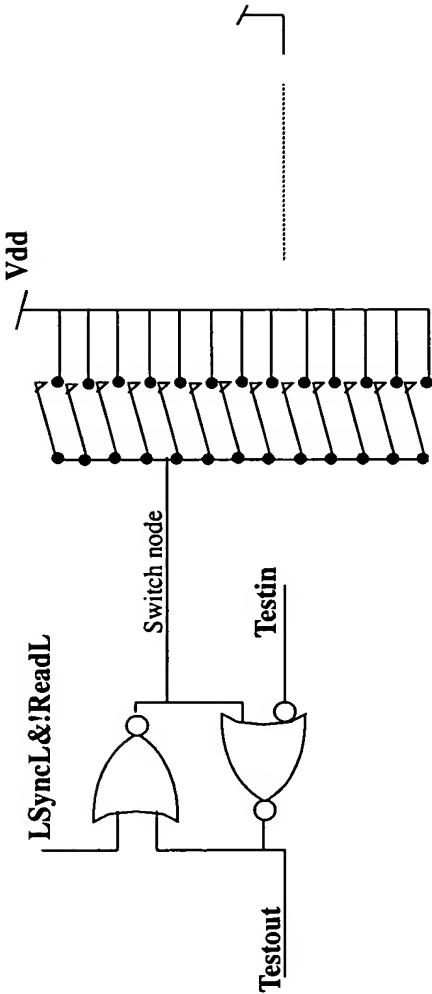


FIG. 319

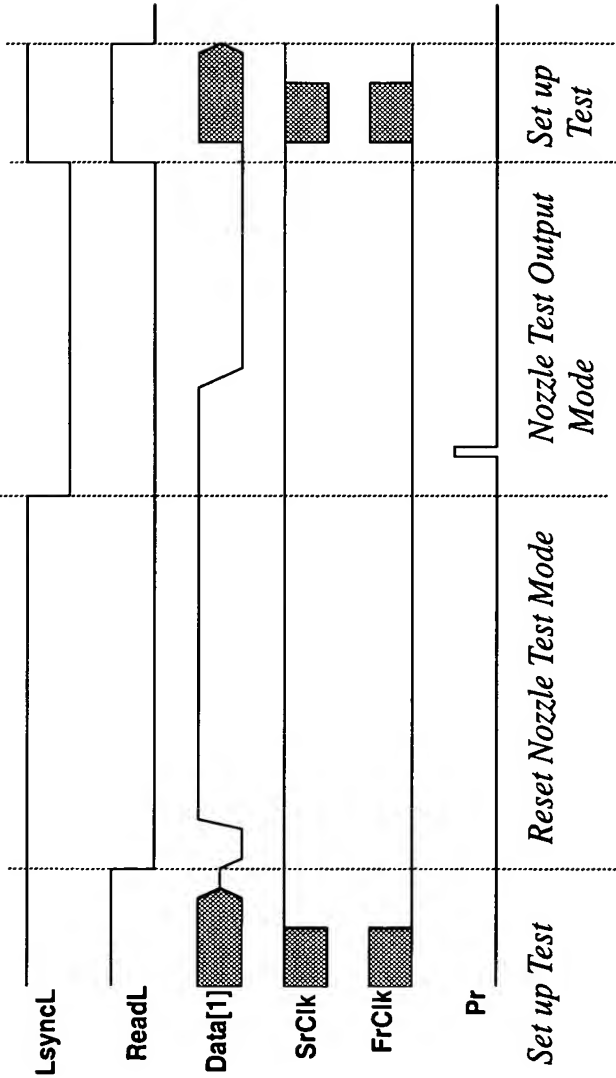


FIG. 320

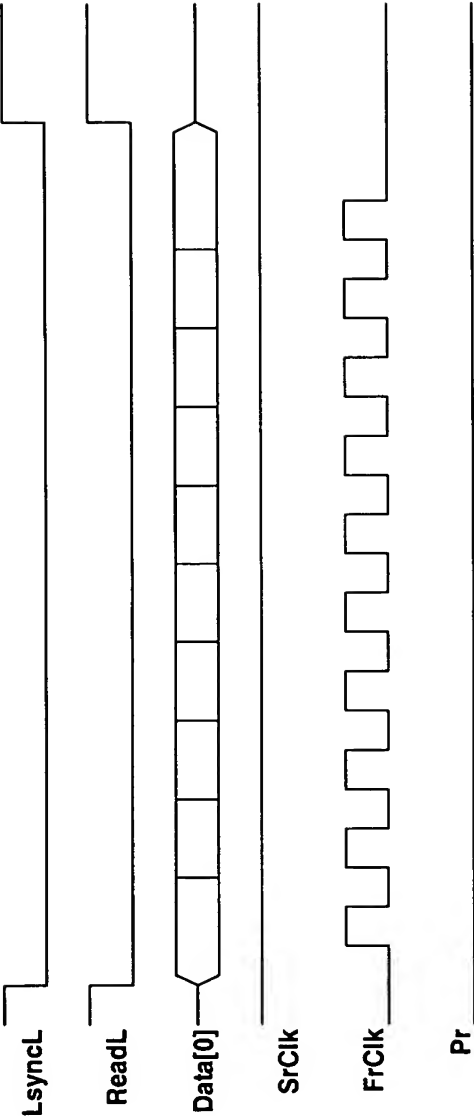


FIG. 321

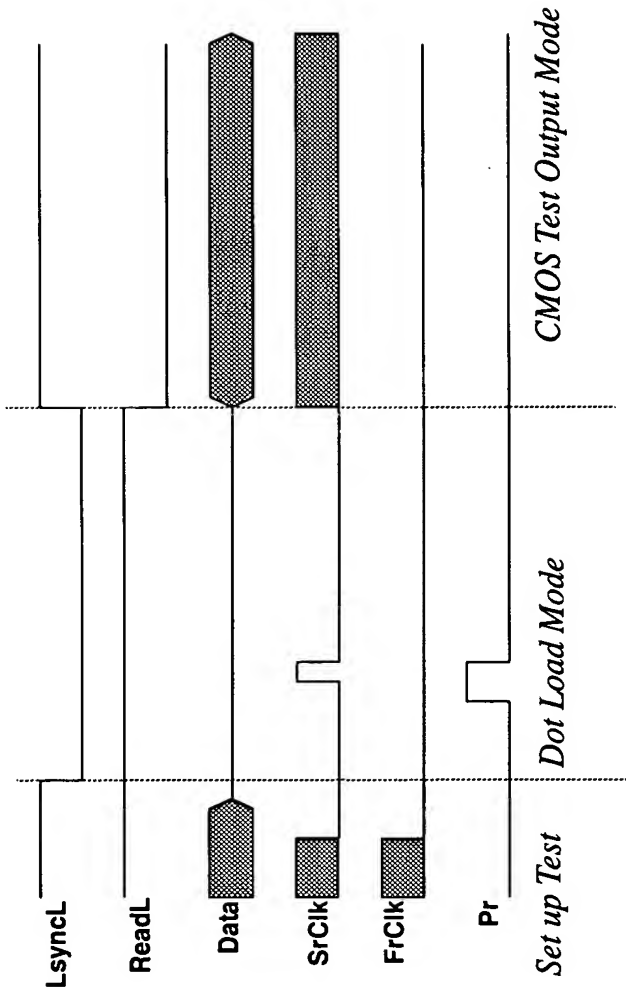


FIG. 322

276/331

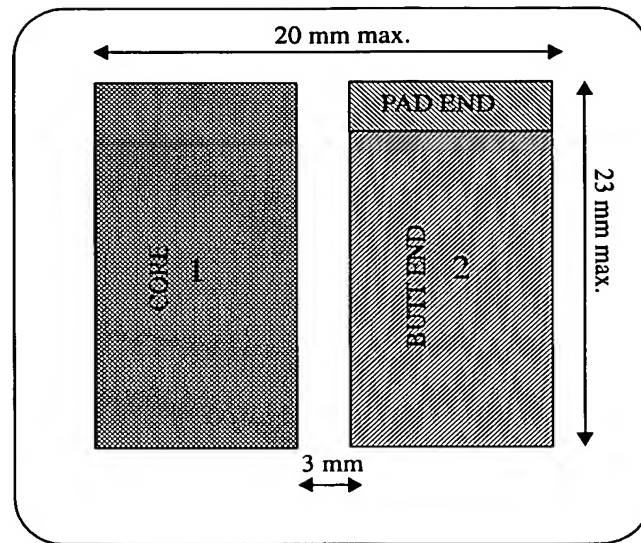


FIG. 323

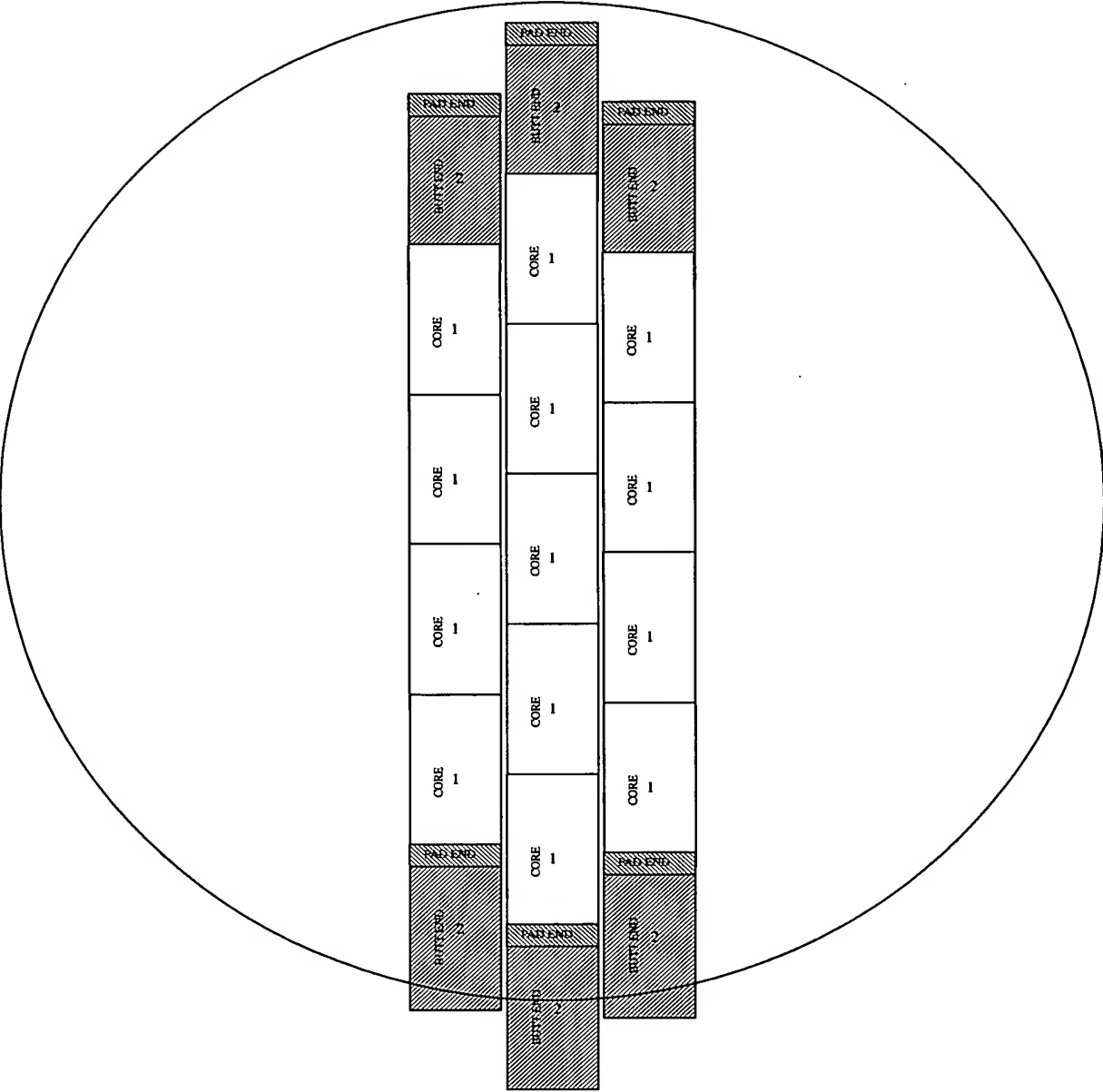


FIG. 324

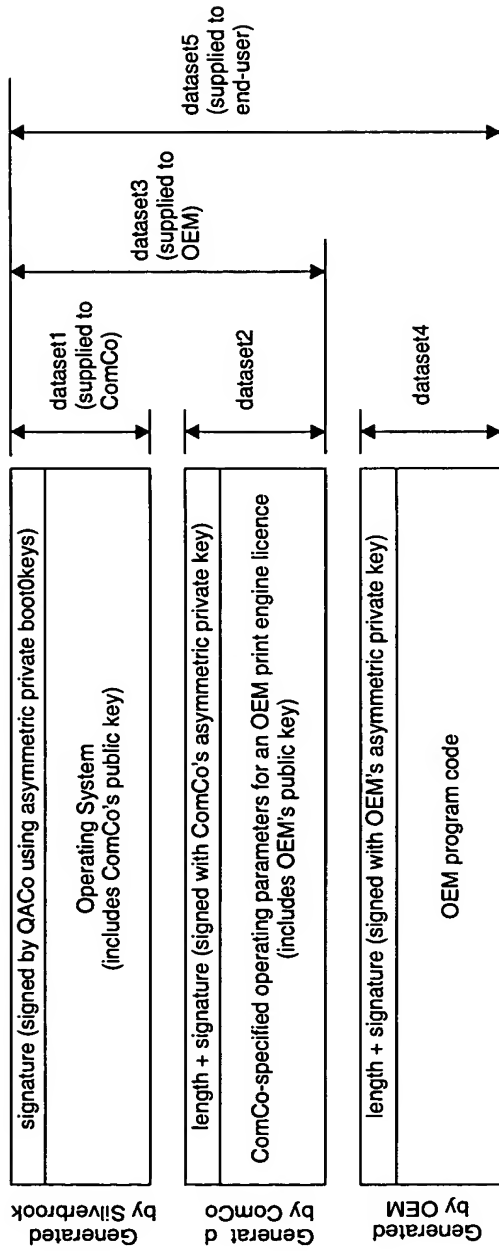


FIG. 325

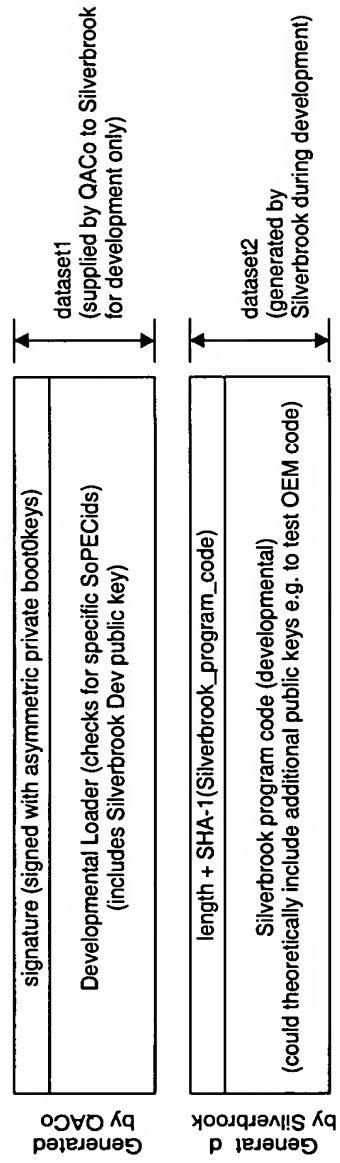


FIG. 327

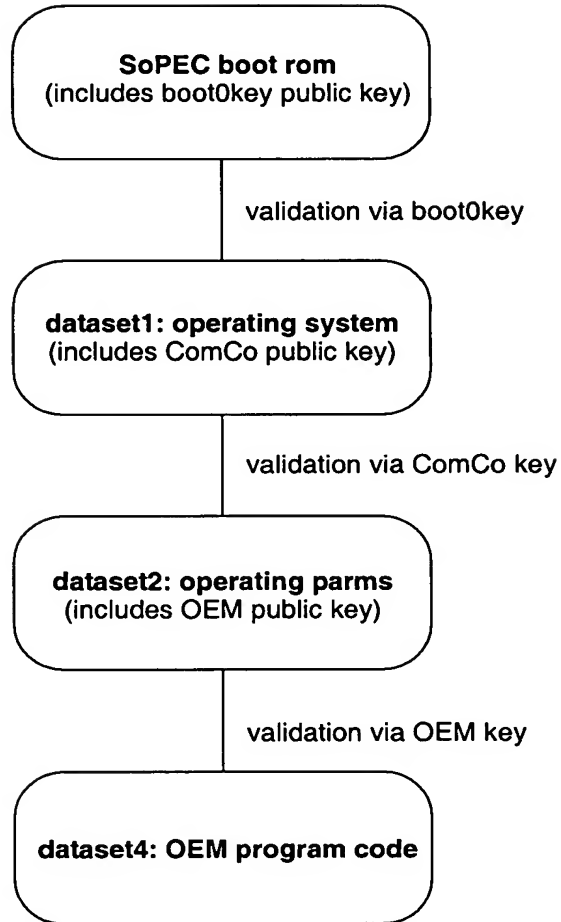


FIG. 326

280/331

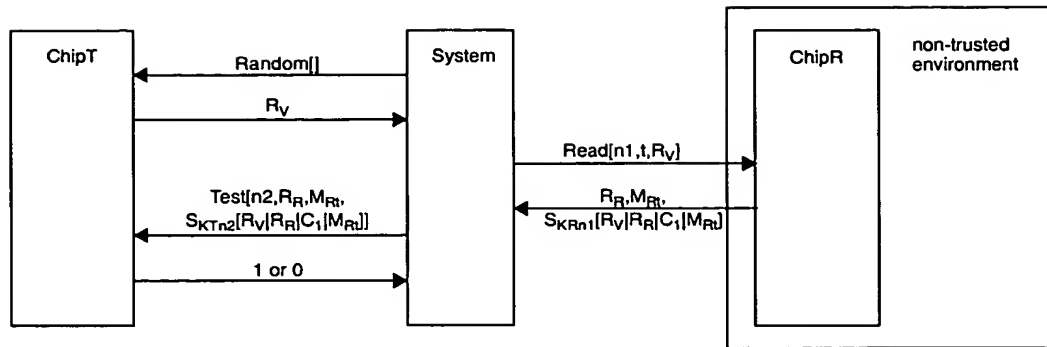


FIG. 328

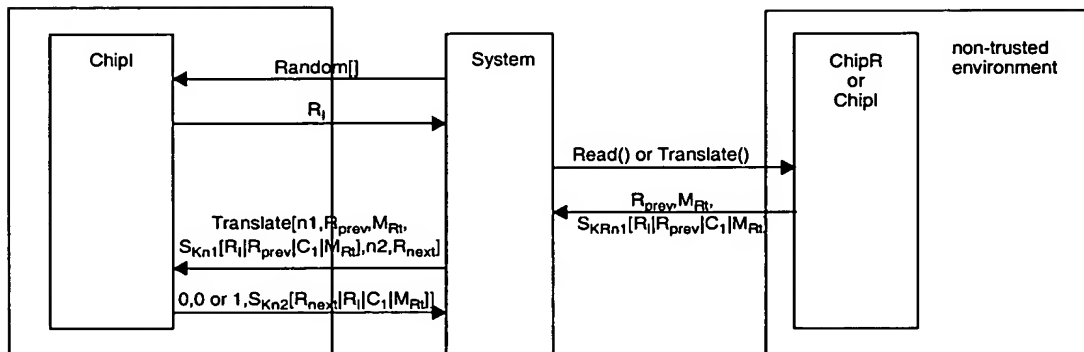


FIG. 329

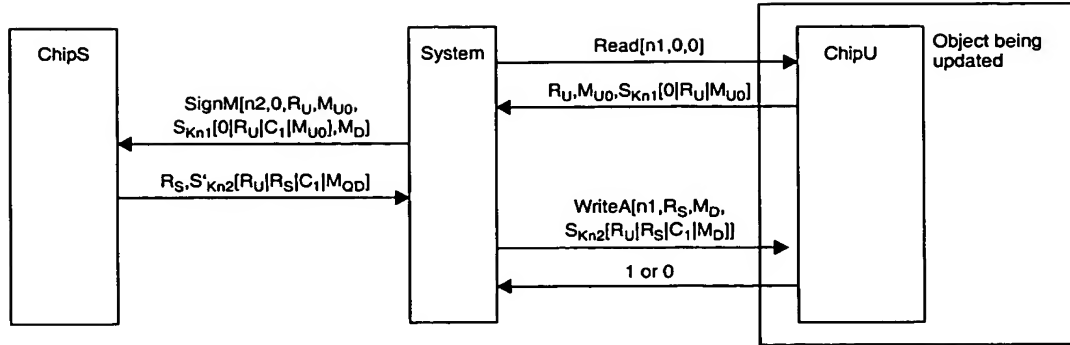


FIG. 330

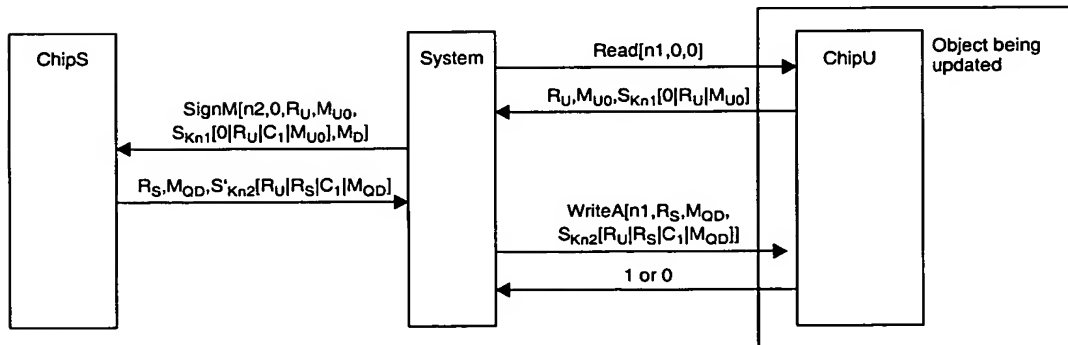


FIG. 331

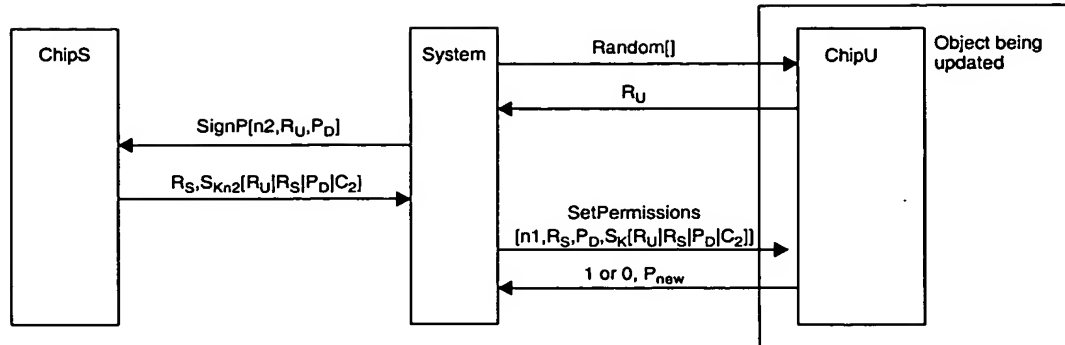


FIG. 332

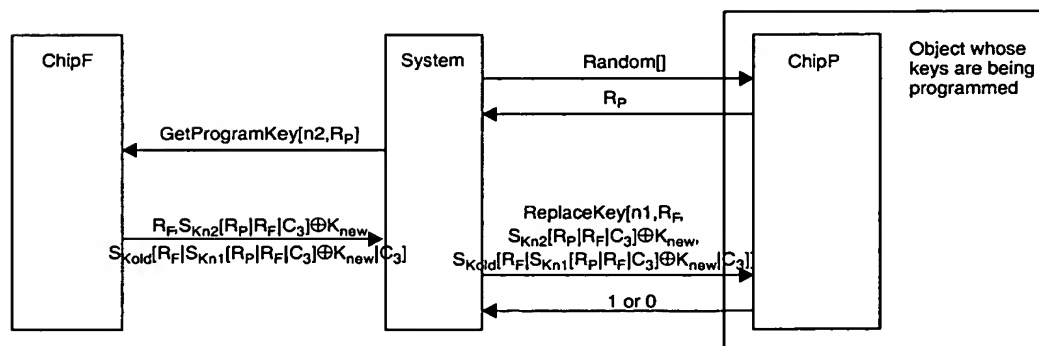


FIG. 333

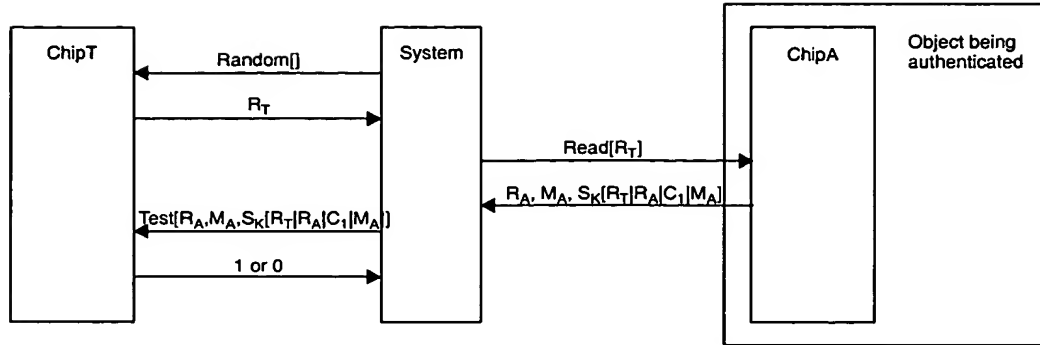


FIG. 334

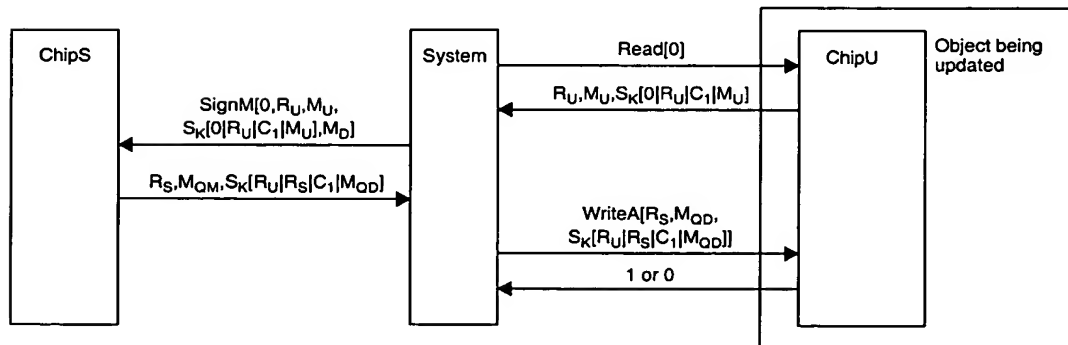


FIG. 335

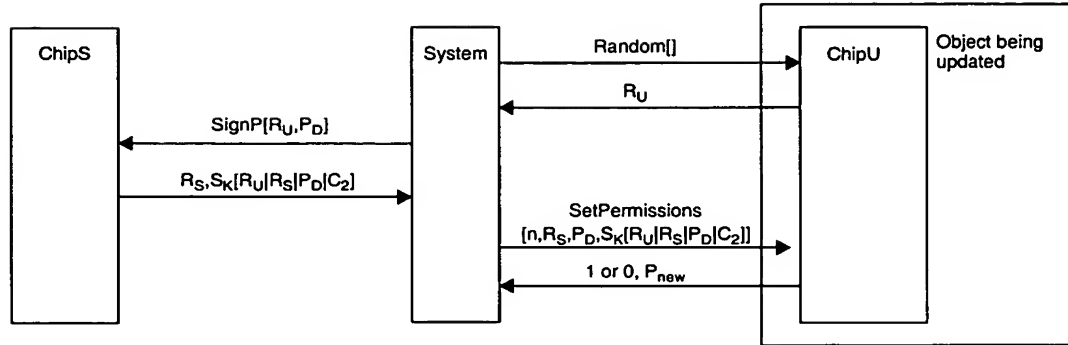


FIG. 336

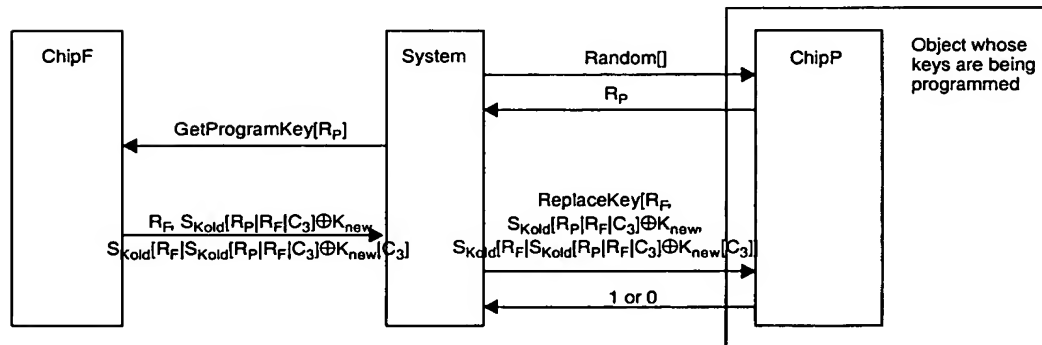


FIG. 337

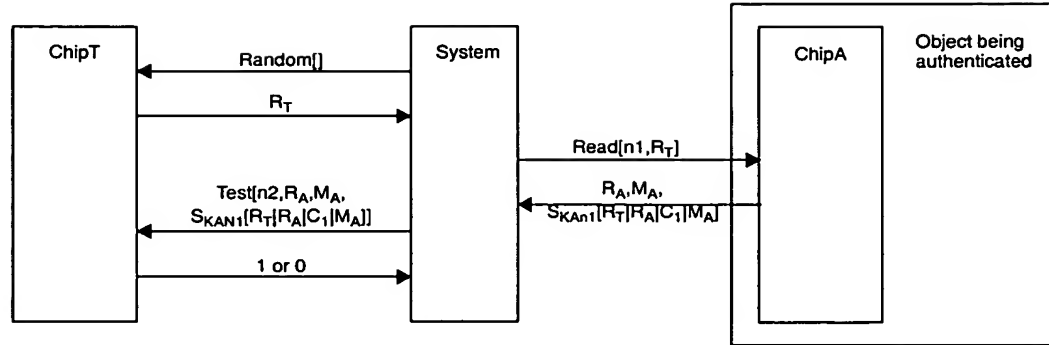


FIG. 338

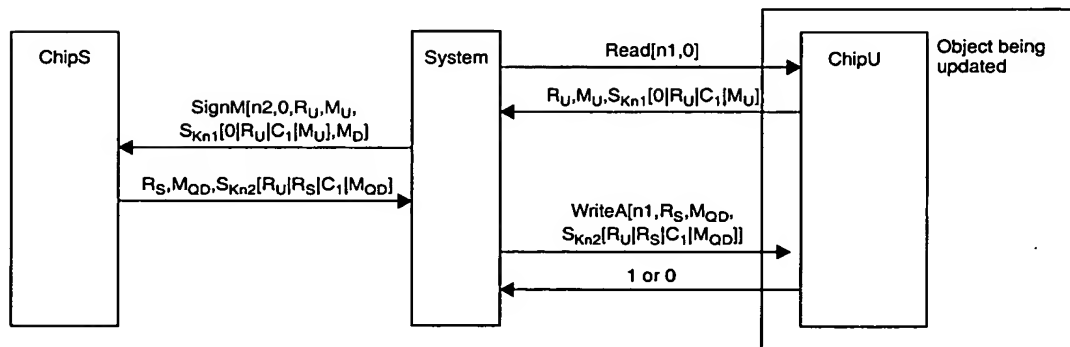


FIG. 339

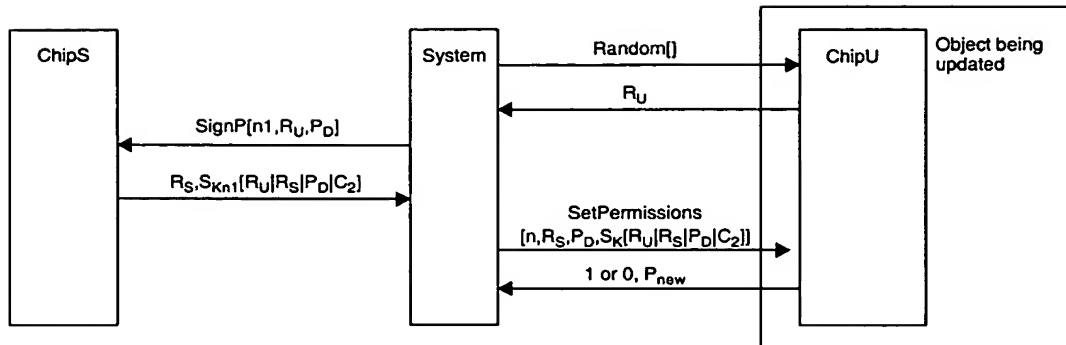


FIG. 340

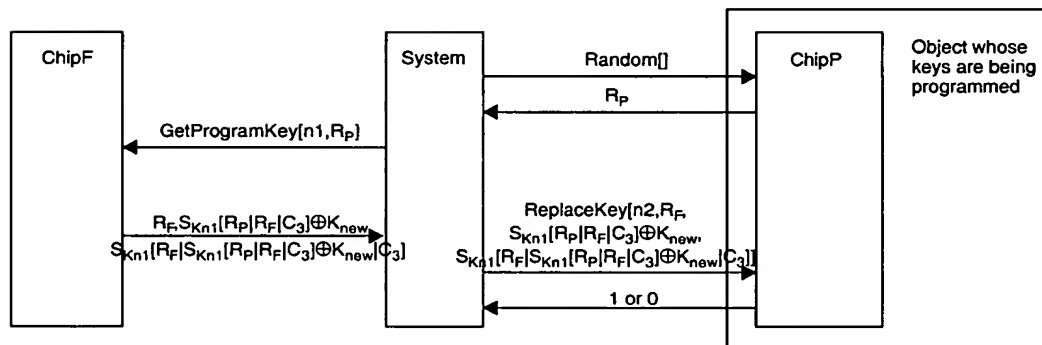


FIG. 341

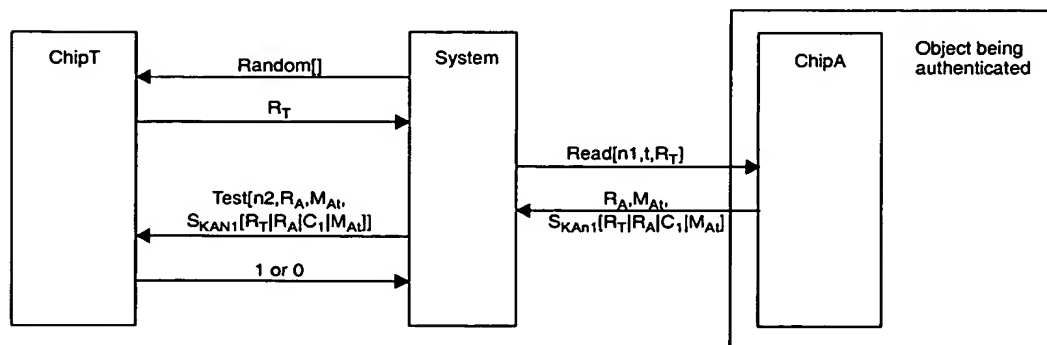


FIG. 342

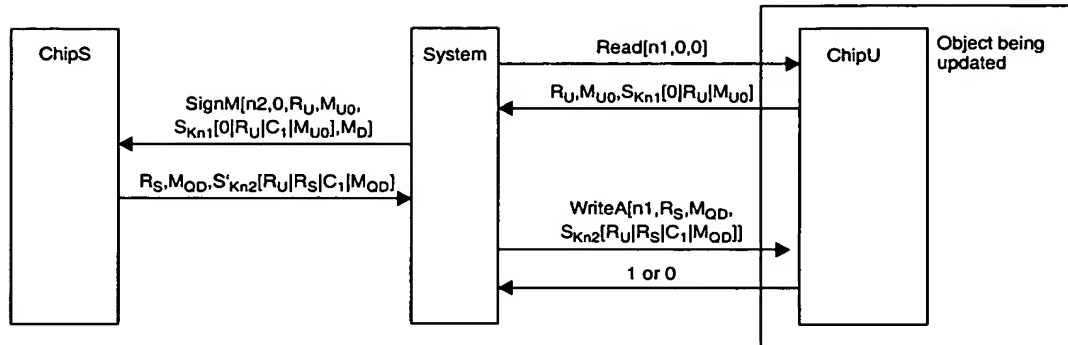


FIG. 343

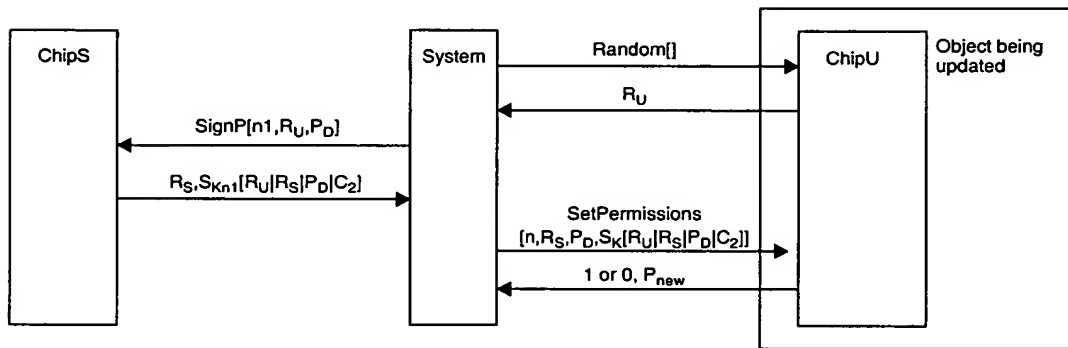


FIG. 344

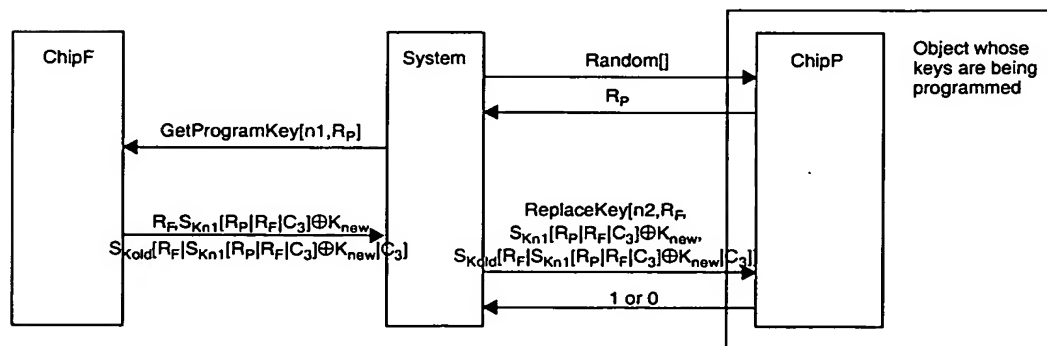


FIG. 345

288/331

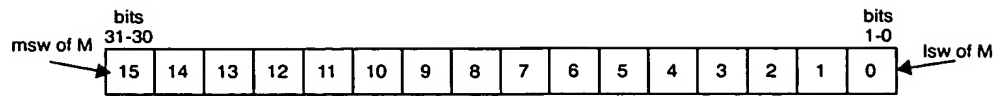


FIG. 346

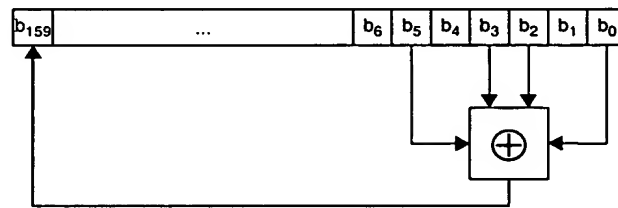


FIG. 347

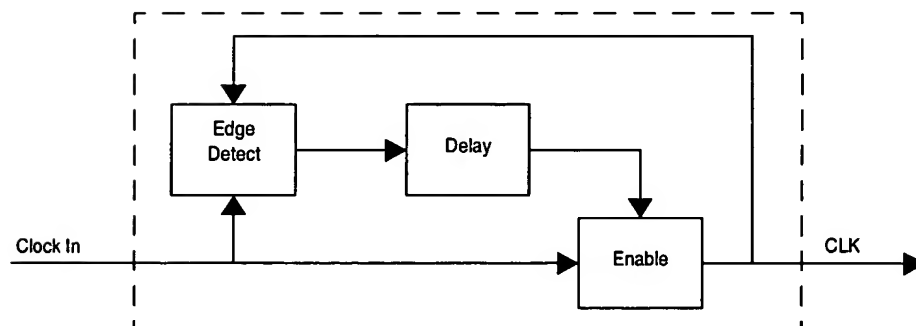


FIG. 348

289/331

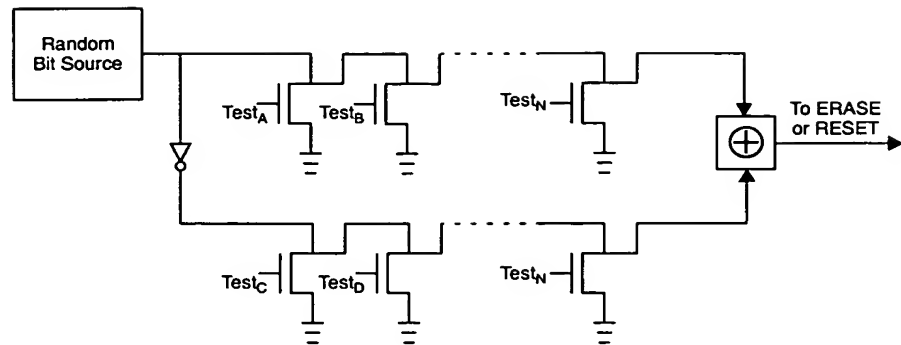


FIG. 349

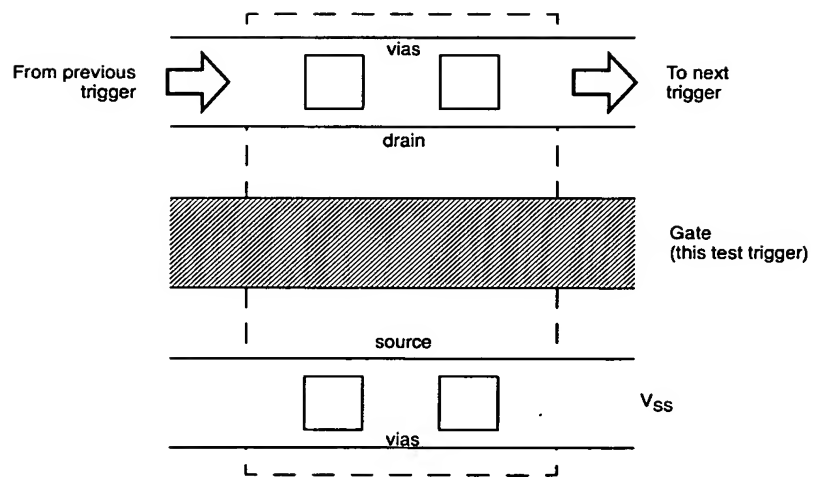


FIG. 350

290/331

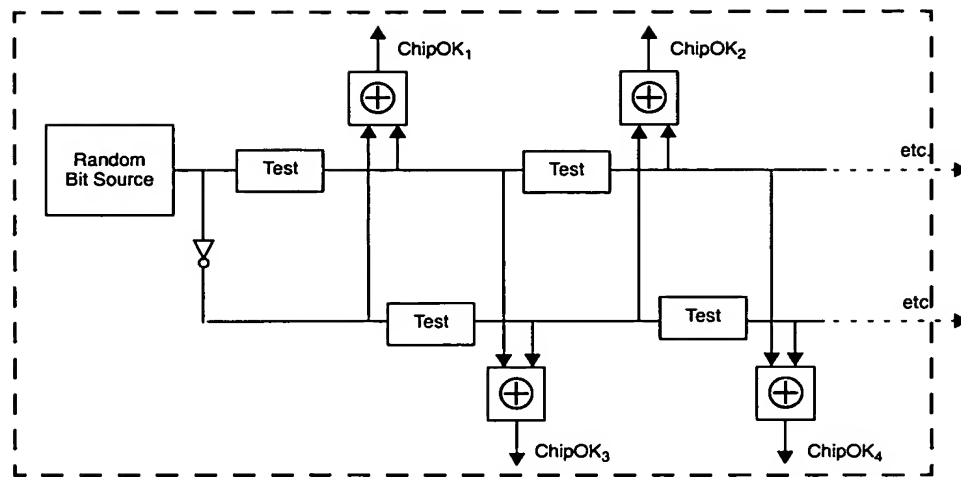


FIG. 351

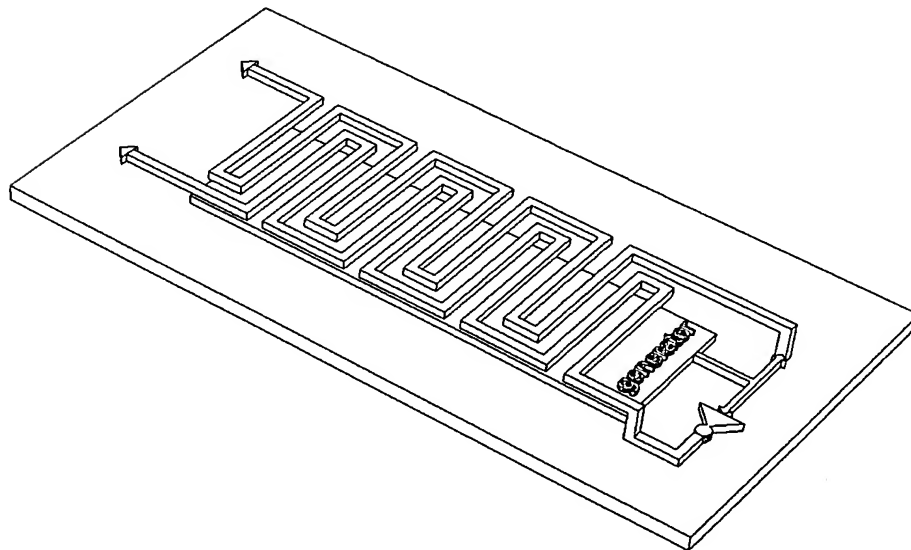


FIG. 352

291/331

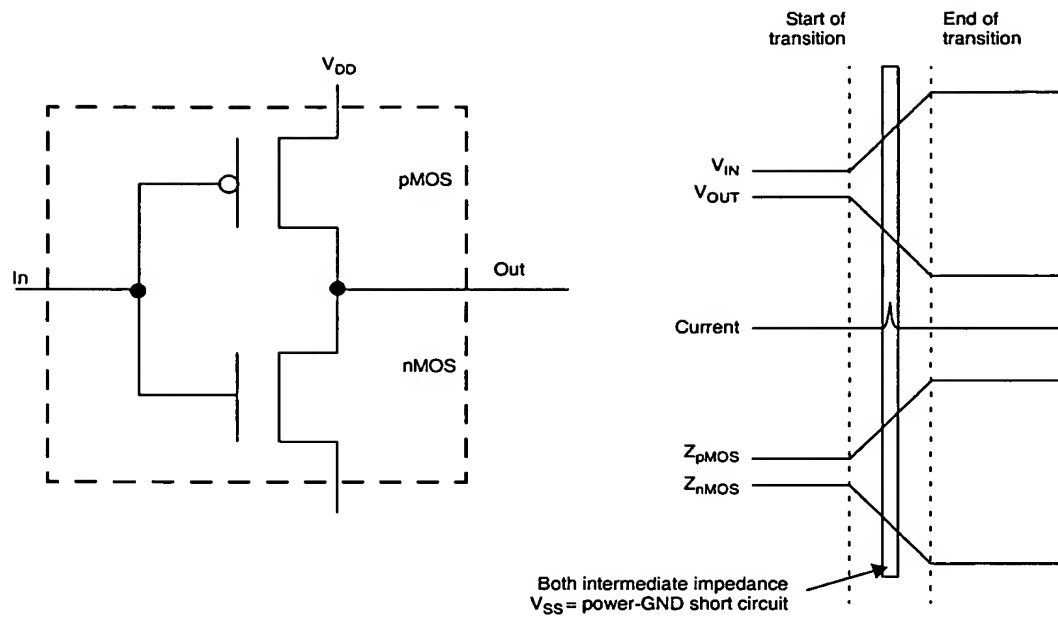


FIG. 353

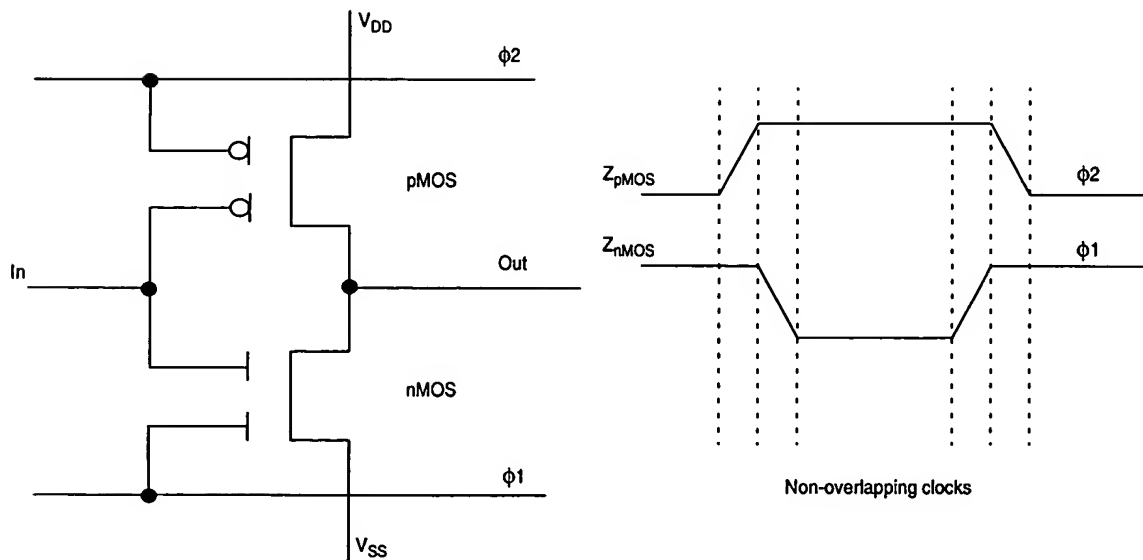


FIG. 354

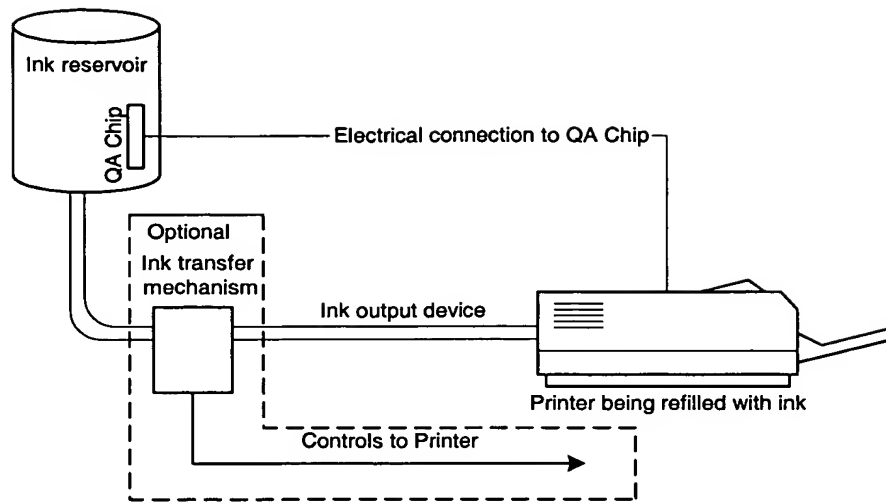


FIG. 355

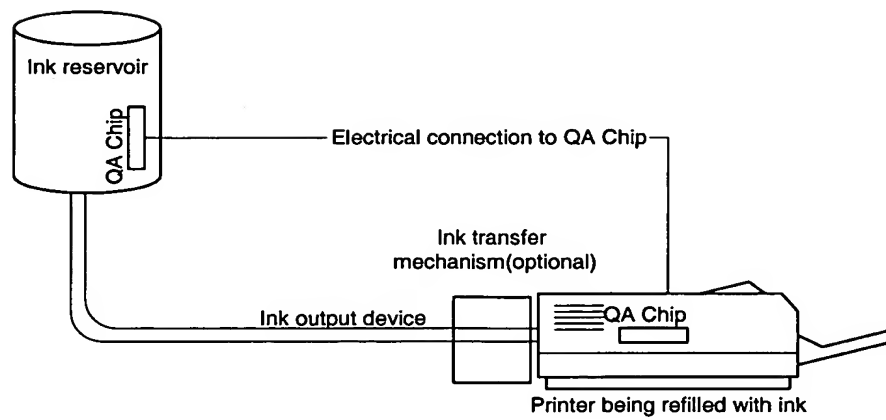


FIG. 356

293/331

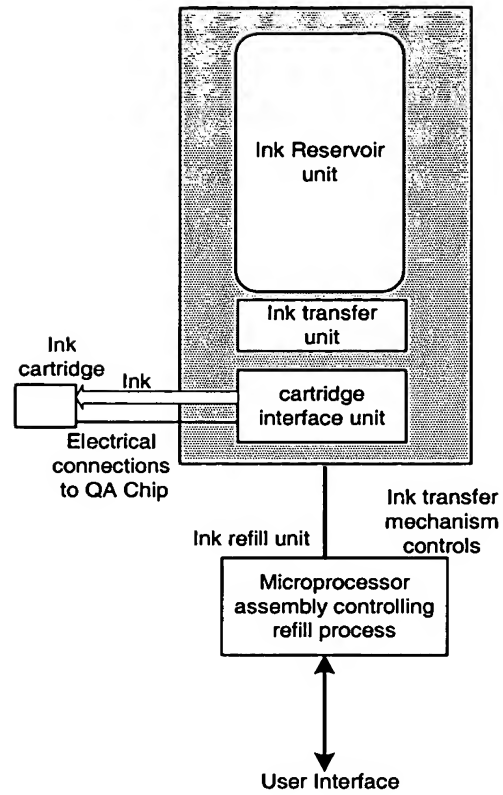


FIG. 357

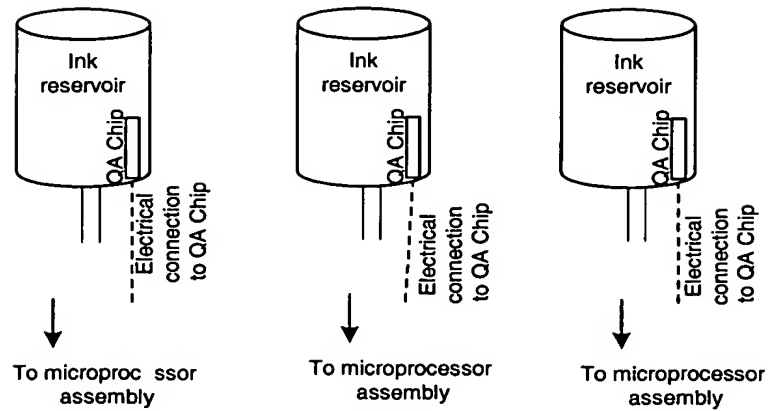


FIG. 358

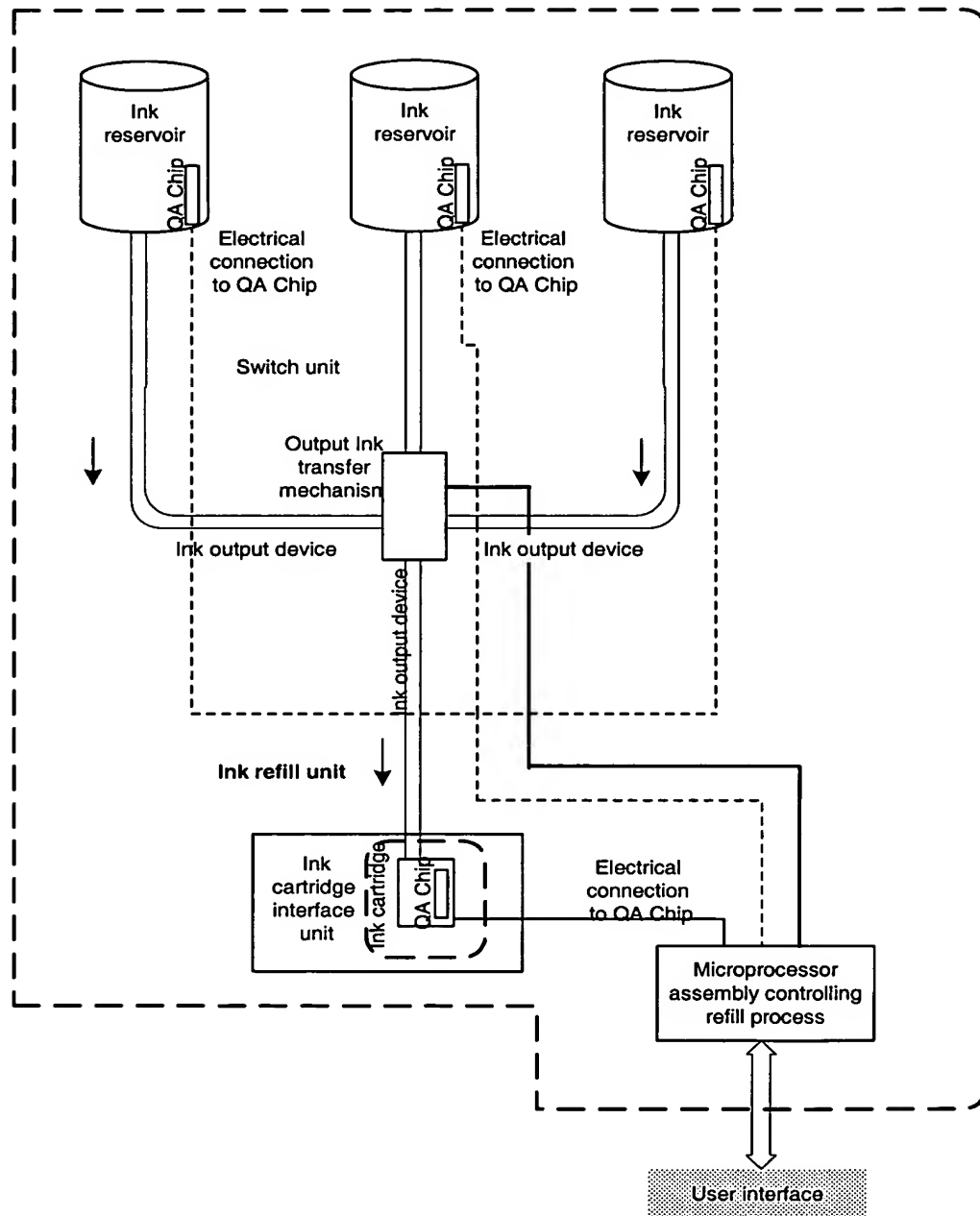


FIG. 359

295/331

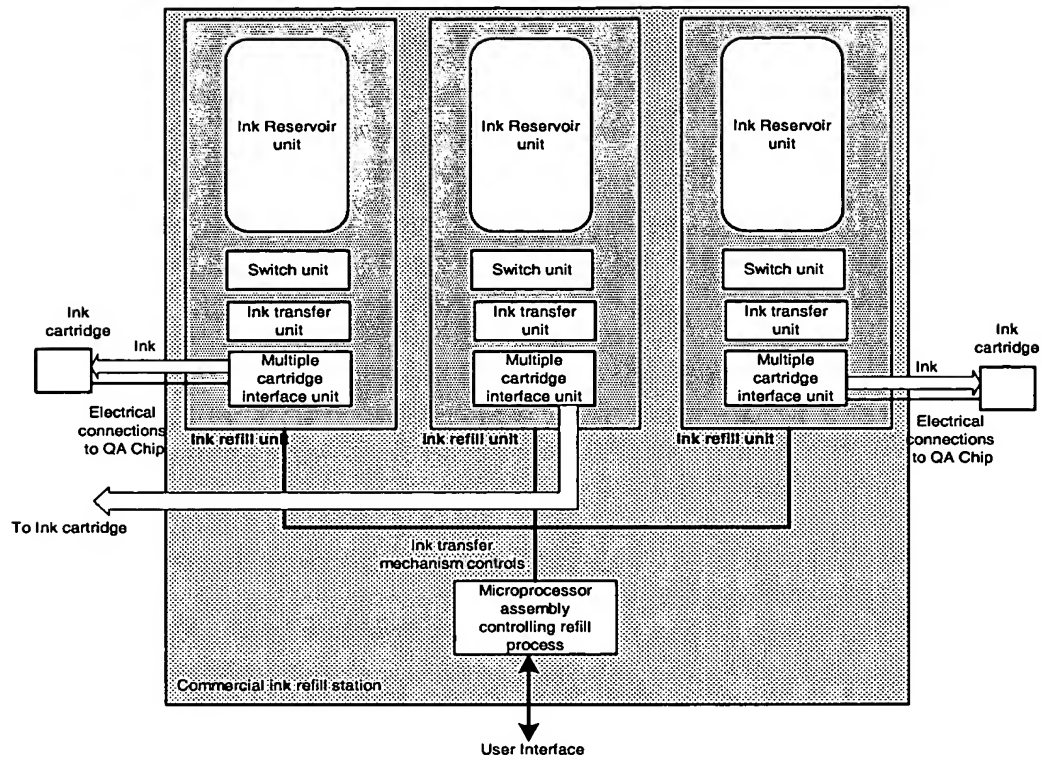


FIG. 360

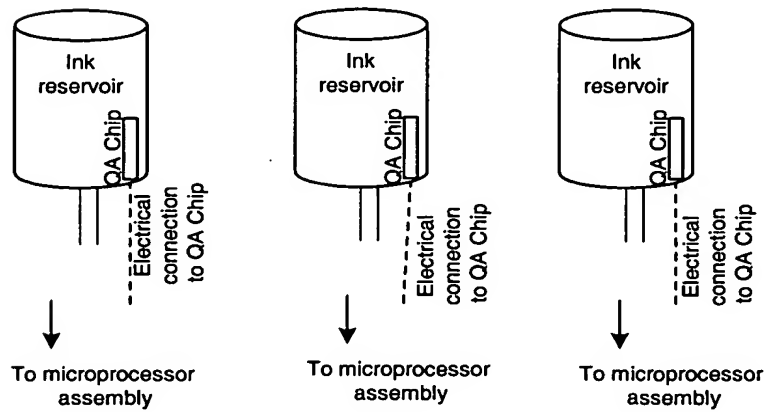


FIG. 361

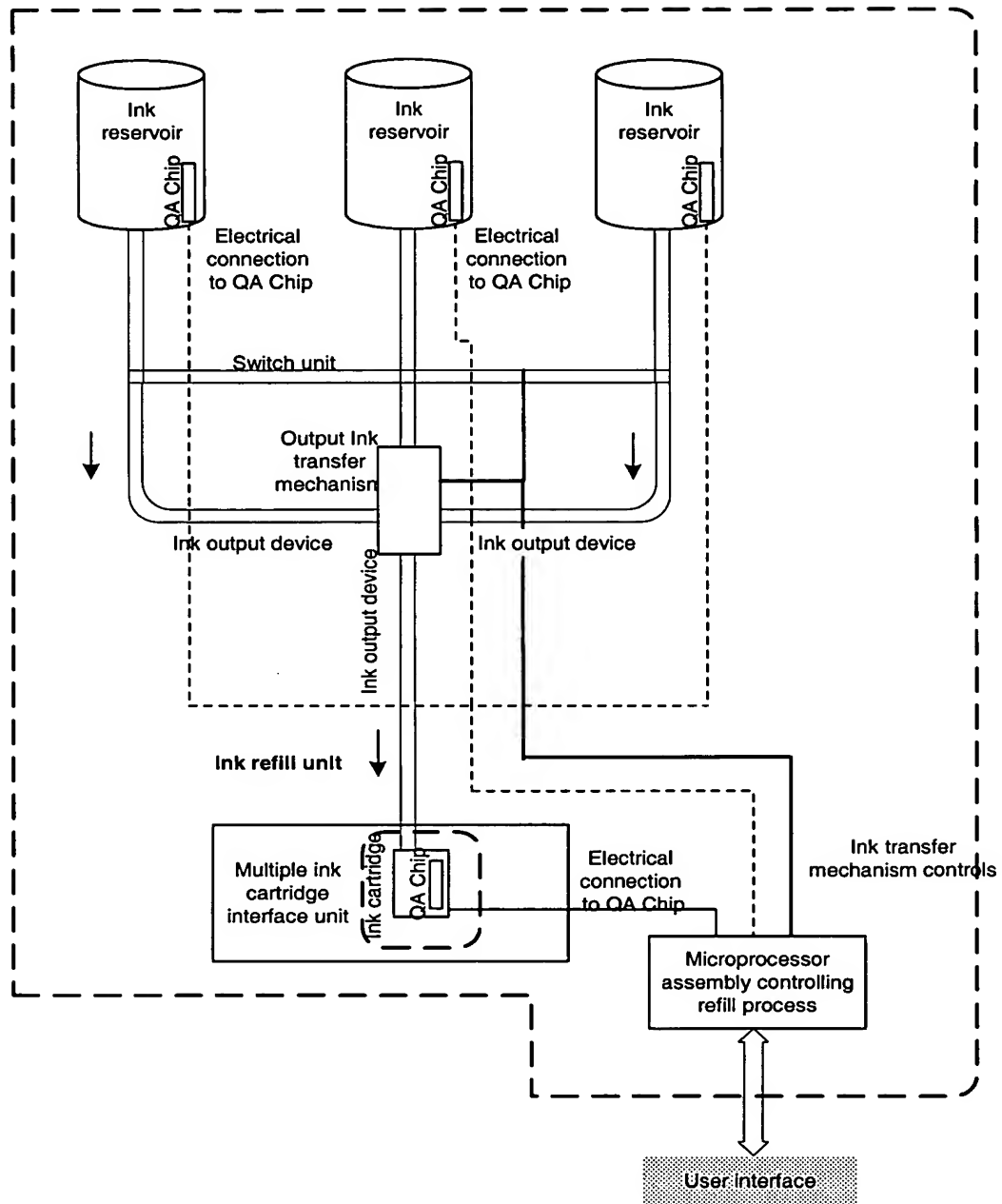


FIG. 362

297/331

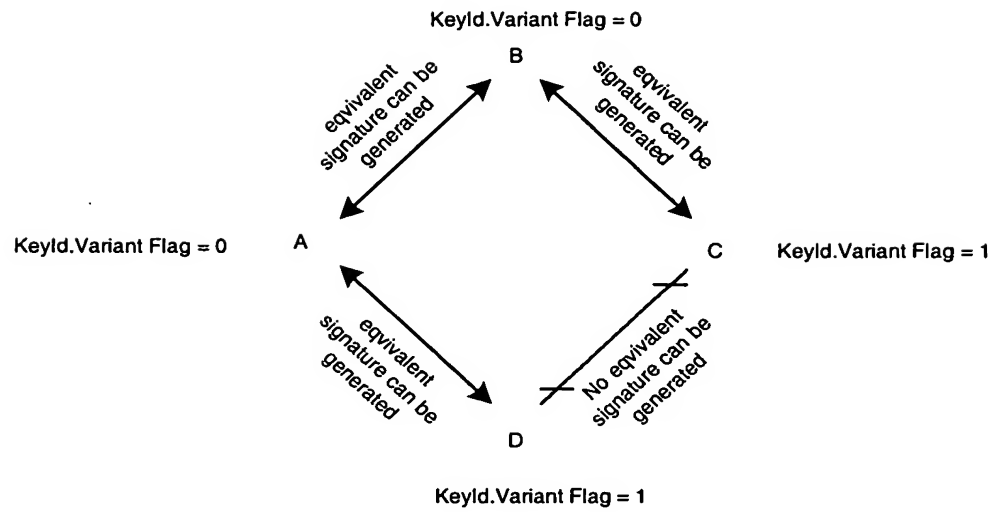


FIG. 363

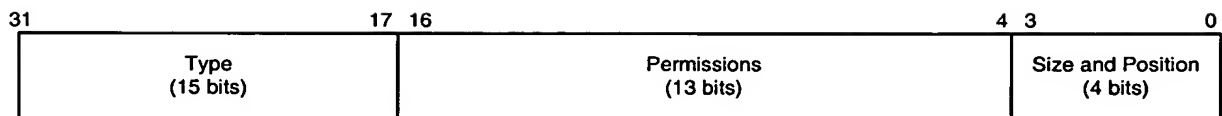


FIG. 364

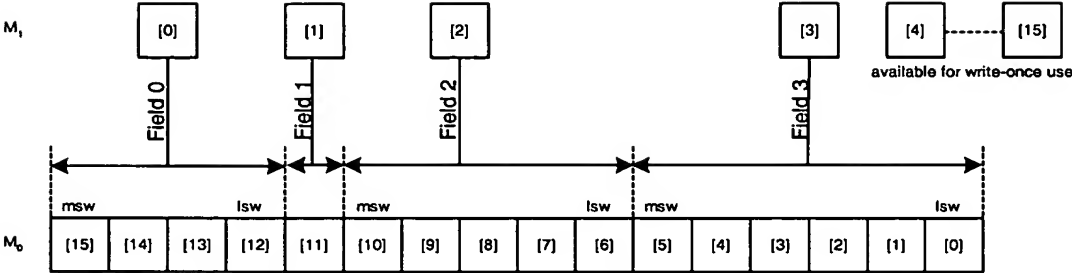


FIG. 365

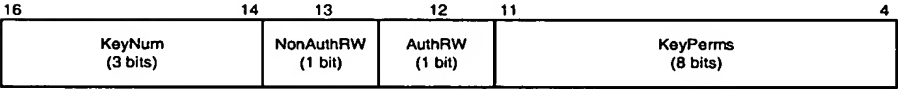


FIG. 366

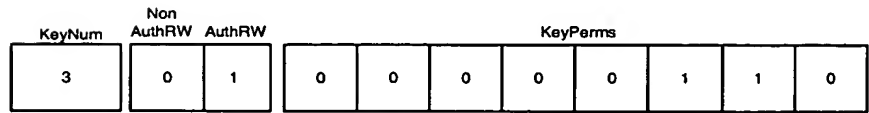


FIG. 367

299/331

KeyNum	Non AuthRW		KeyPerms							
3	1	1	0	0	0	0	1	1	1	0

FIG. 368

31	17	16	14	13	12	11	4	3	0
Type (15 bits)			KeyNum (3 bits)	NonAuth RW (1 bit)	AuthRW (1 bit)	KeyPerms (8 bits)		EndPos (4 bits)	

FIG. 369

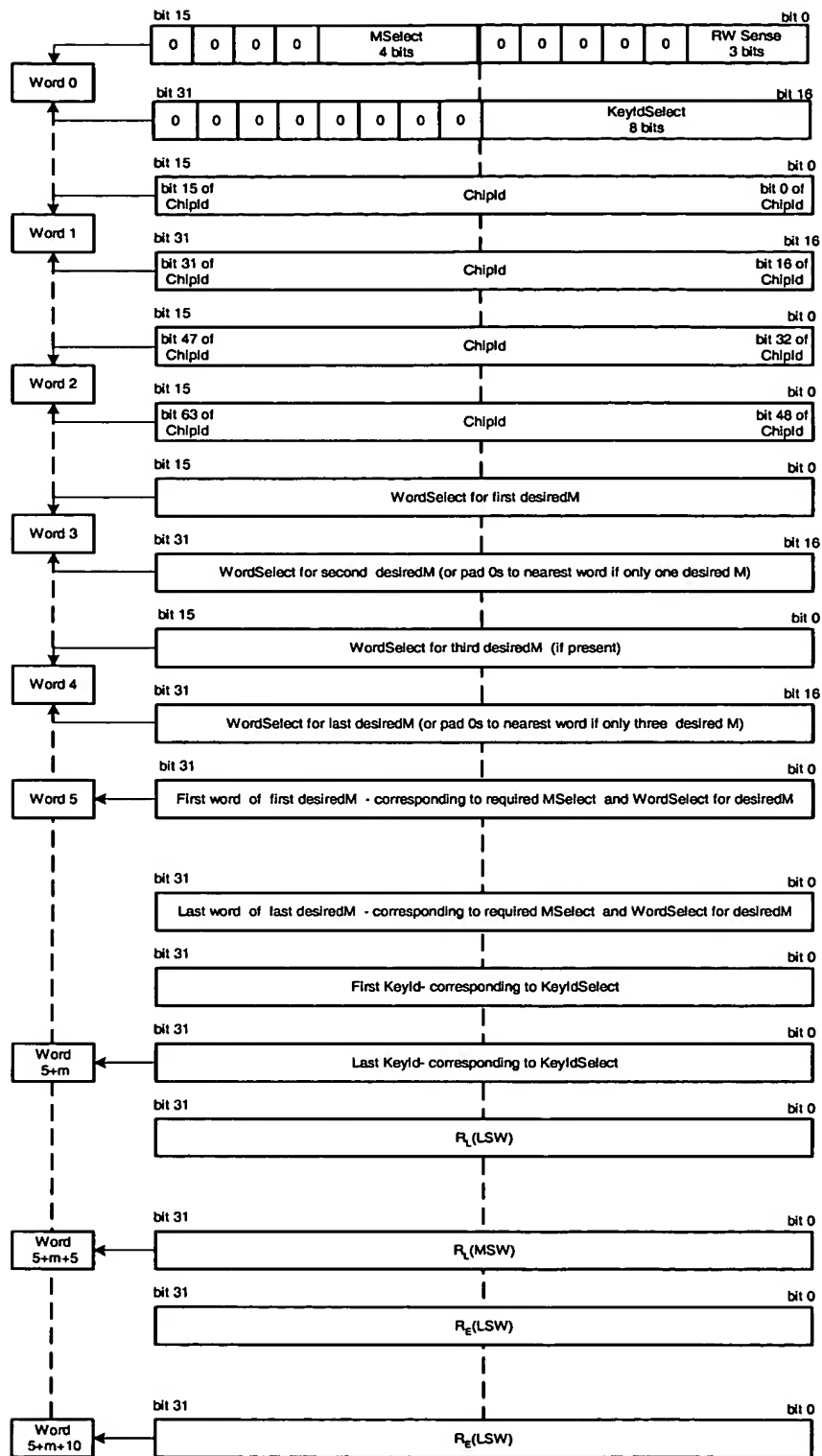


FIG. 370

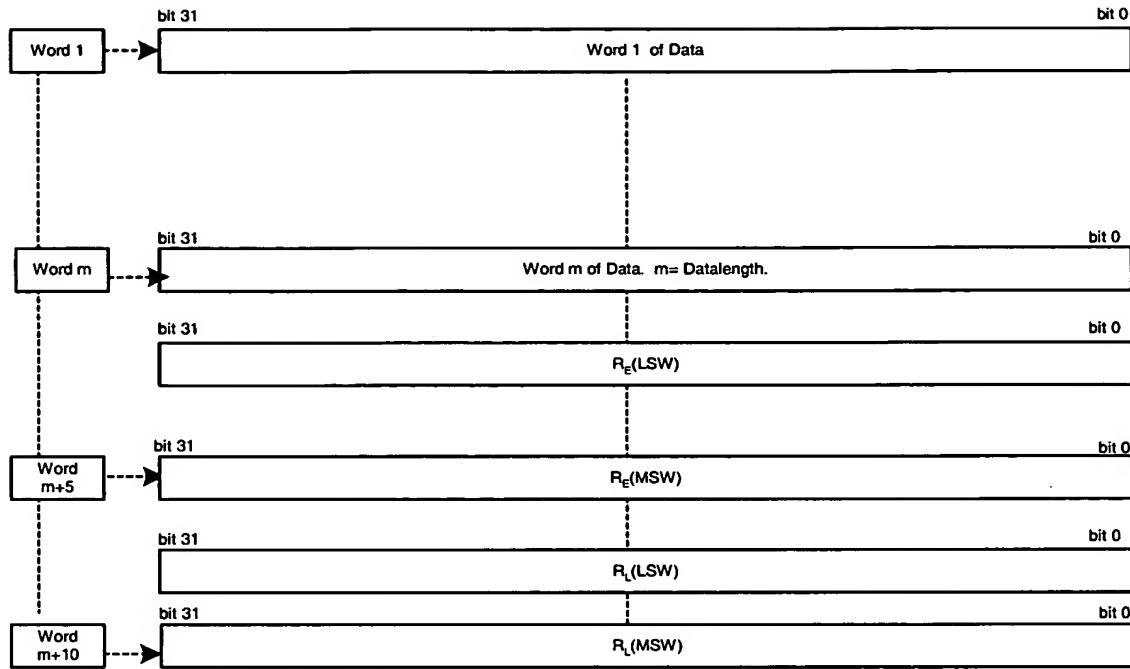


FIG. 371

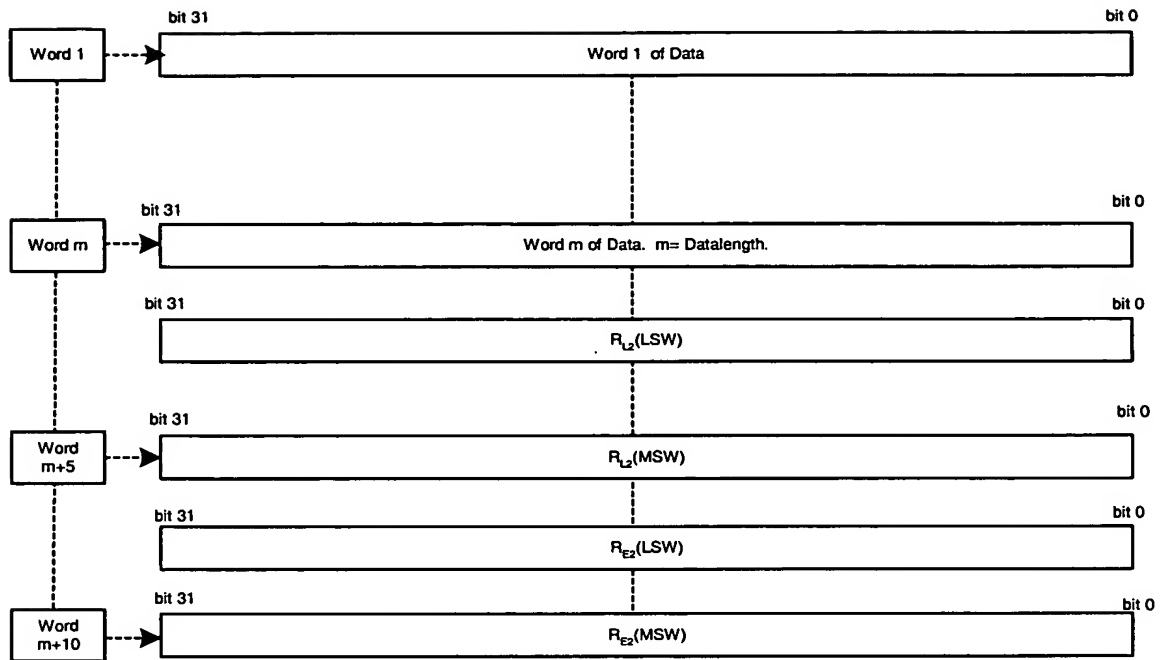


FIG. 372

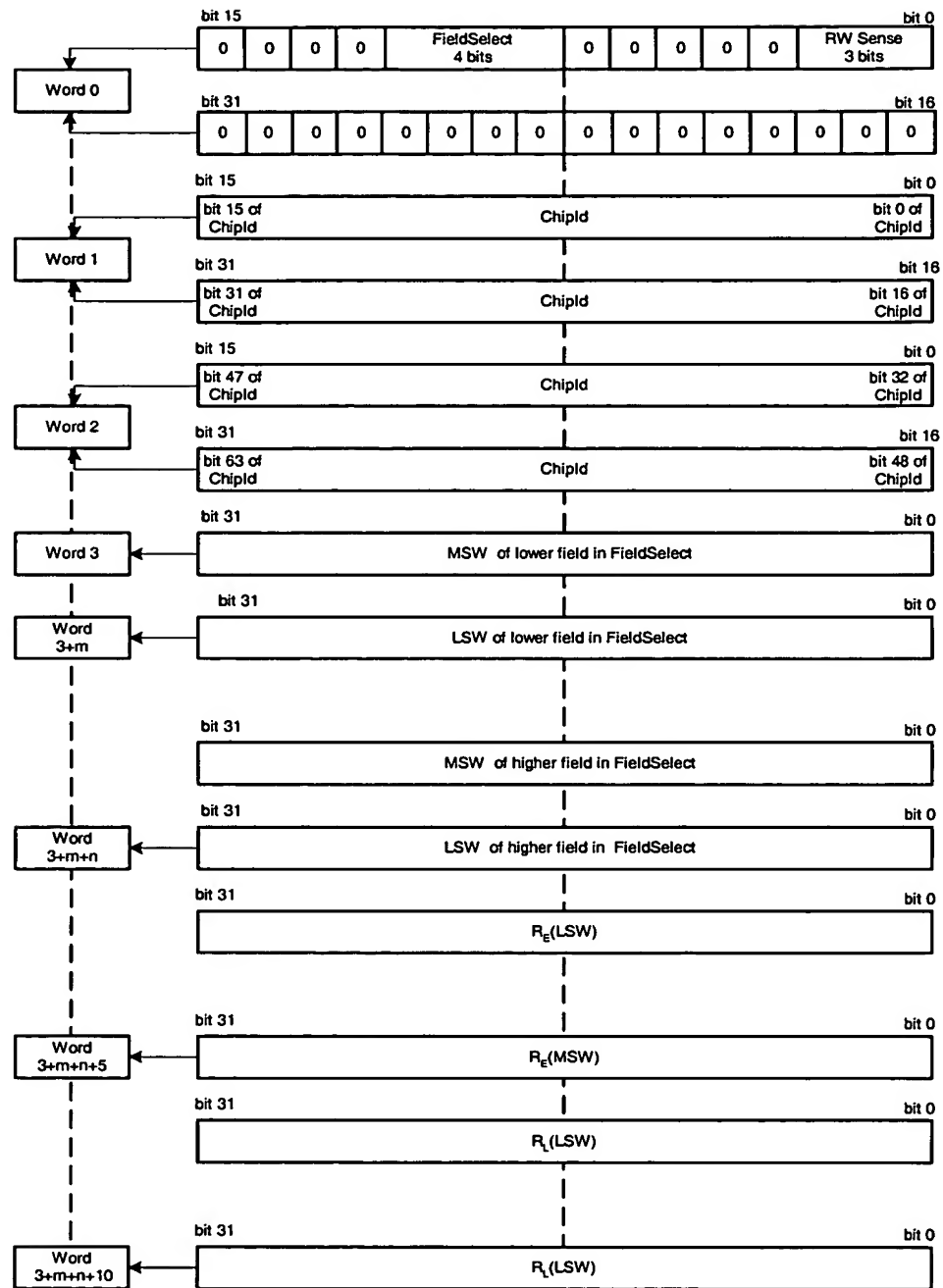


FIG. 373

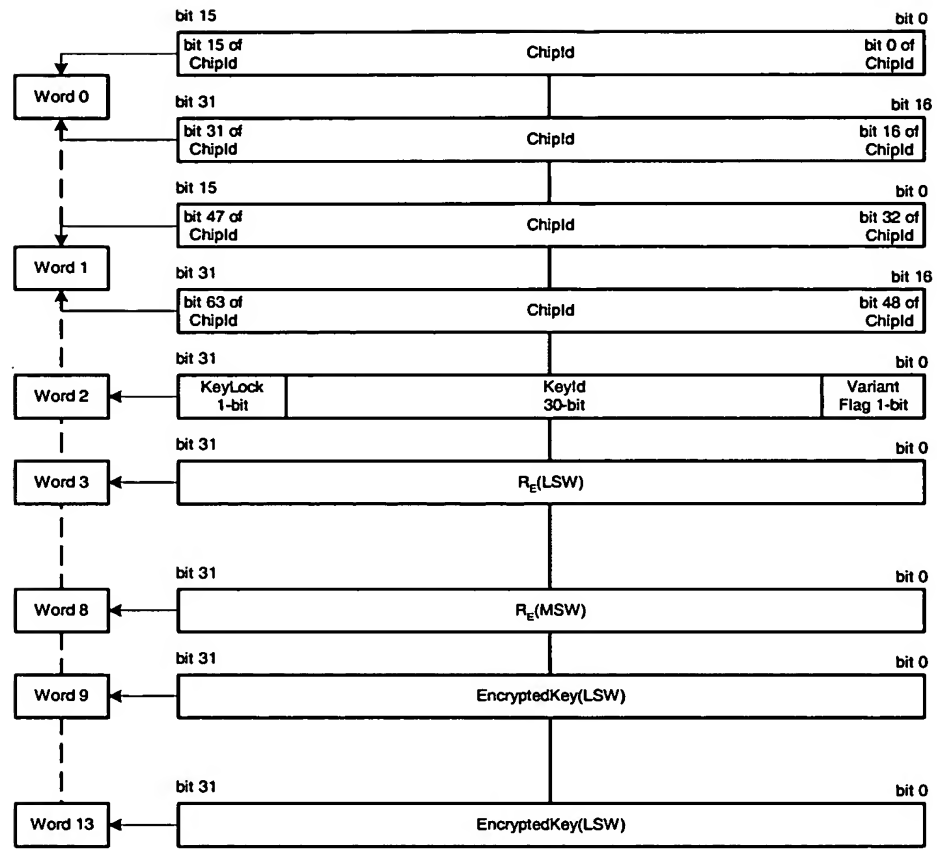


FIG. 374

305/331

		NewKey									
		K ₀	K ₁	K ₂	K ₃	K ₄	K ₅	K ₆	K ₇		
OldKey	K ₀									⇒	0x00
	K ₁			1						⇒	0x04
	K ₂					1			1	⇒	0x90
	K ₃		1							⇒	0x02
	K ₄		1							⇒	0x02
	K ₅		1							⇒	0x02
	K ₆		1				1			⇒	0x22
	K ₇		1							⇒	0x02

FIG. 375

		NewKey									
		K ₀	K ₁	K ₂	K ₃	K ₄	K ₅	K ₆	K ₇		
OldKey	K ₀									⇒	0x00
	K ₁			access deleted						⇒	0x00
	K ₂					1			1	⇒	0x90
	K ₃									⇒	0x00
	K ₄									⇒	0x00
	K ₅									⇒	0x00
	K ₆						1			⇒	0x20
	K ₇									⇒	0x00

FIG. 376

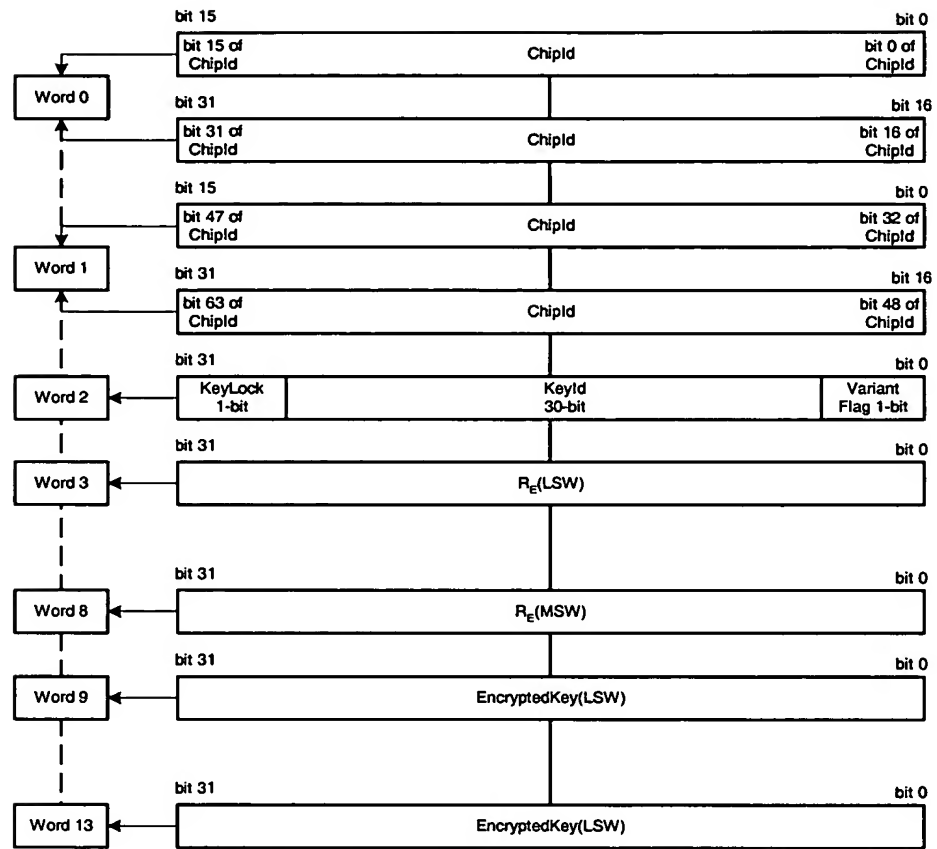


FIG. 377

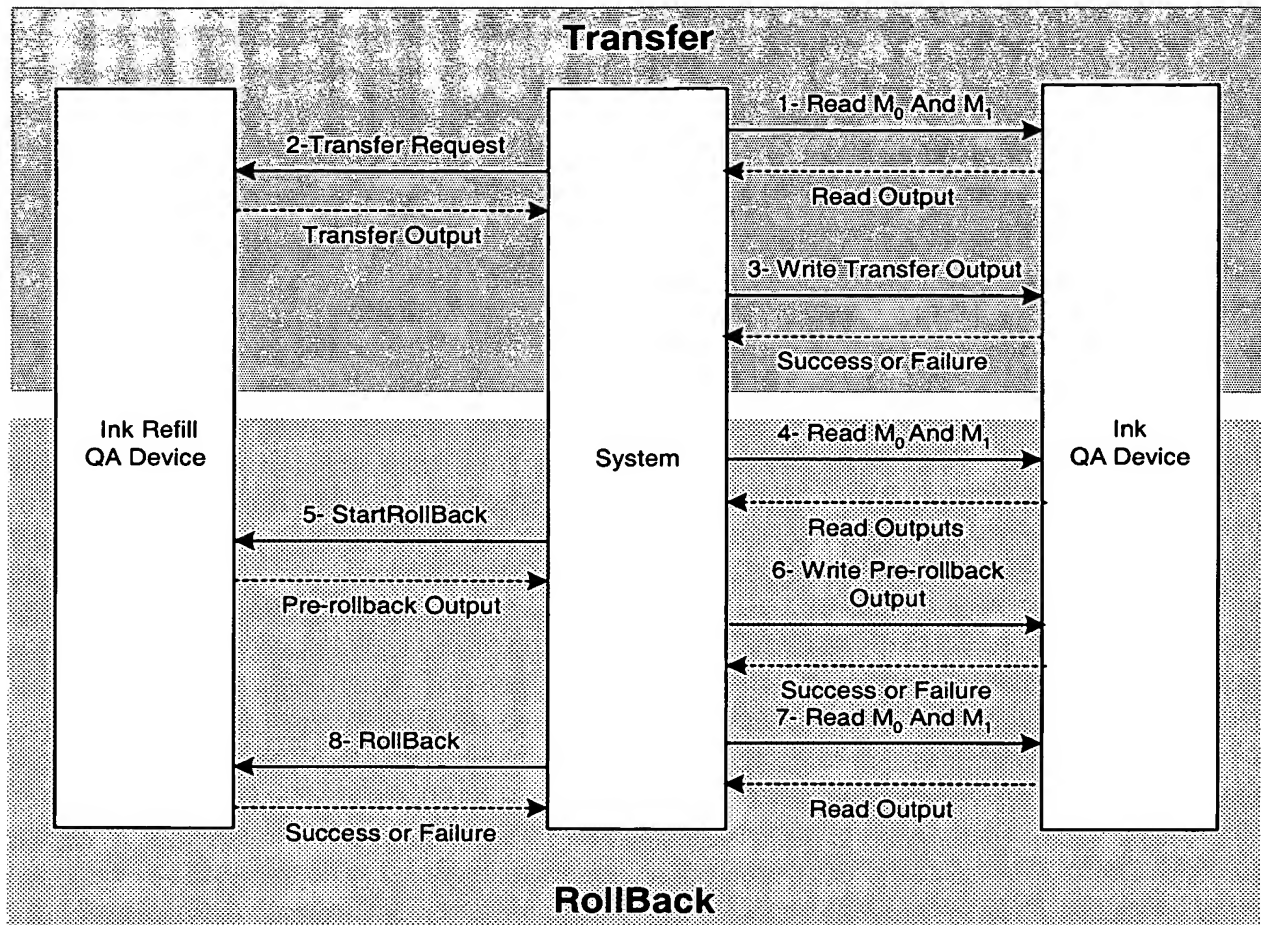


FIG. 378

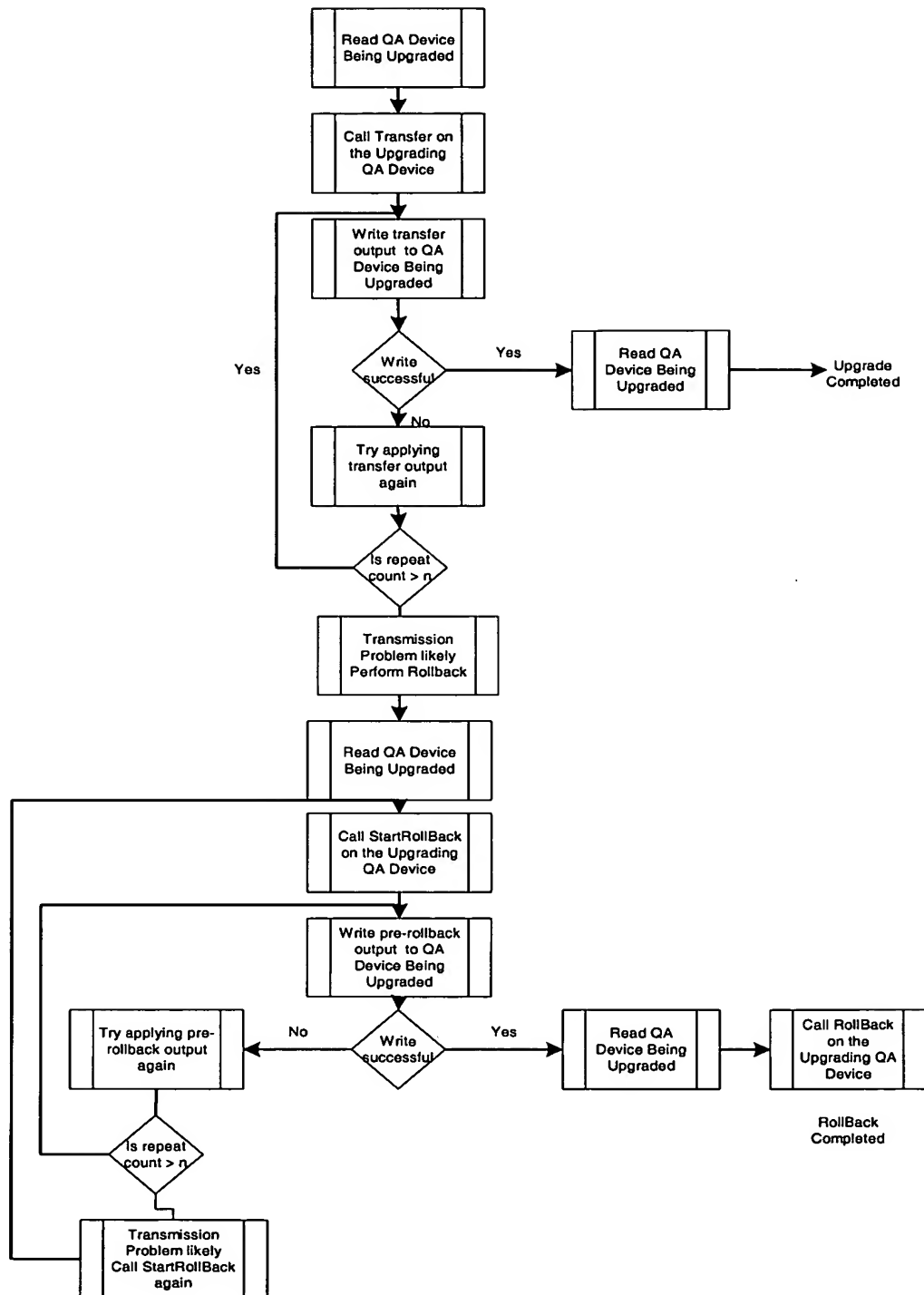
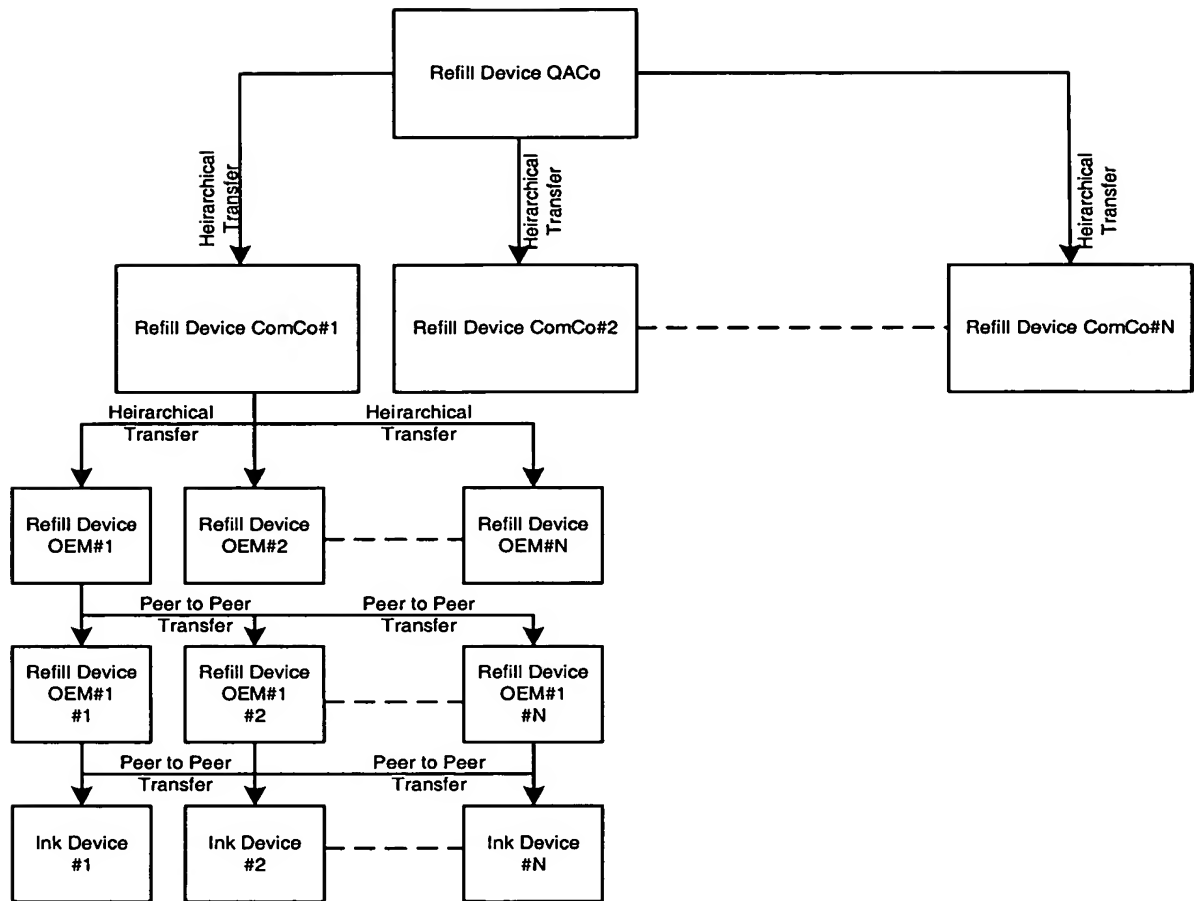


FIG. 379

*FIG. 380*

310/331

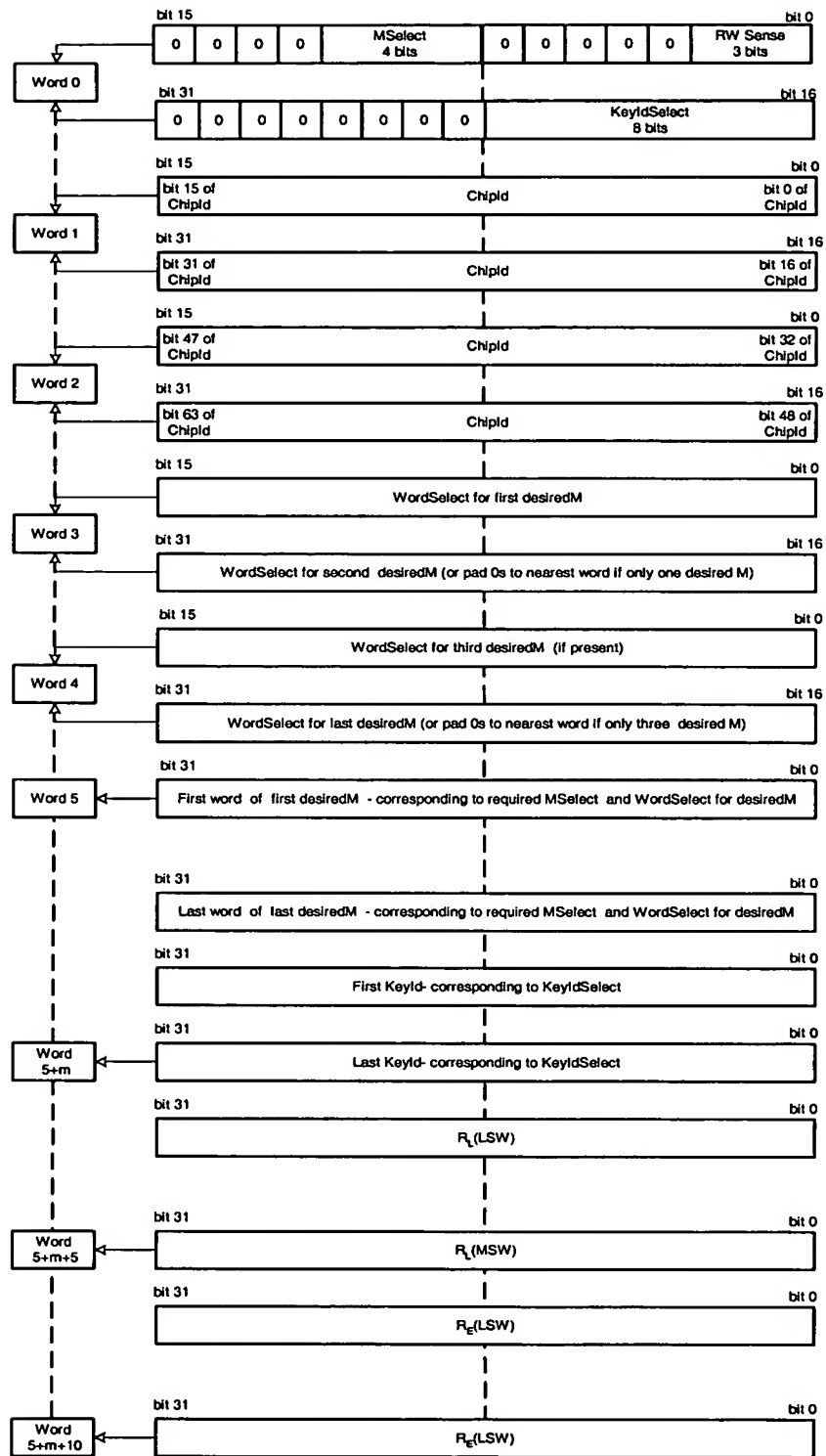


FIG. 381

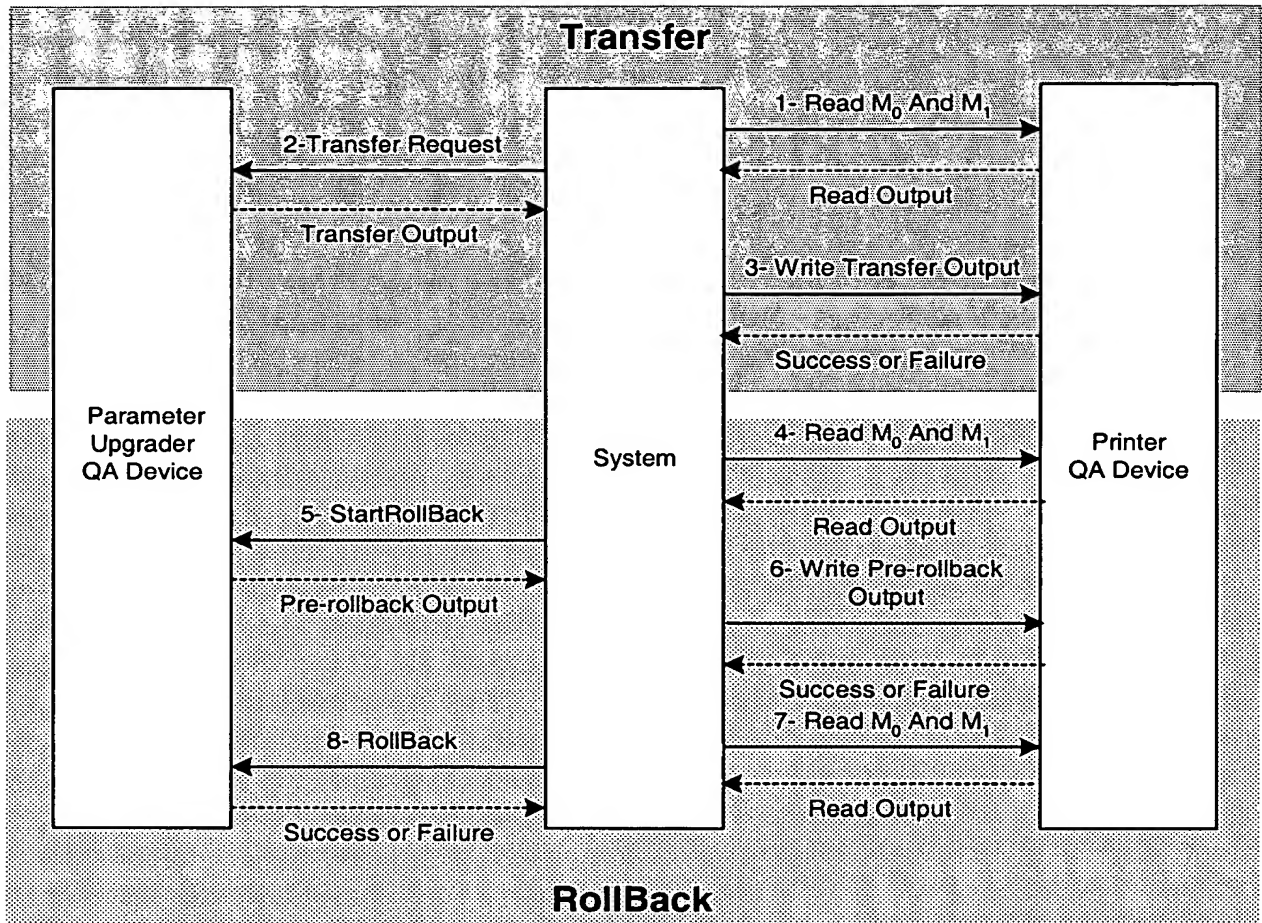


FIG. 382

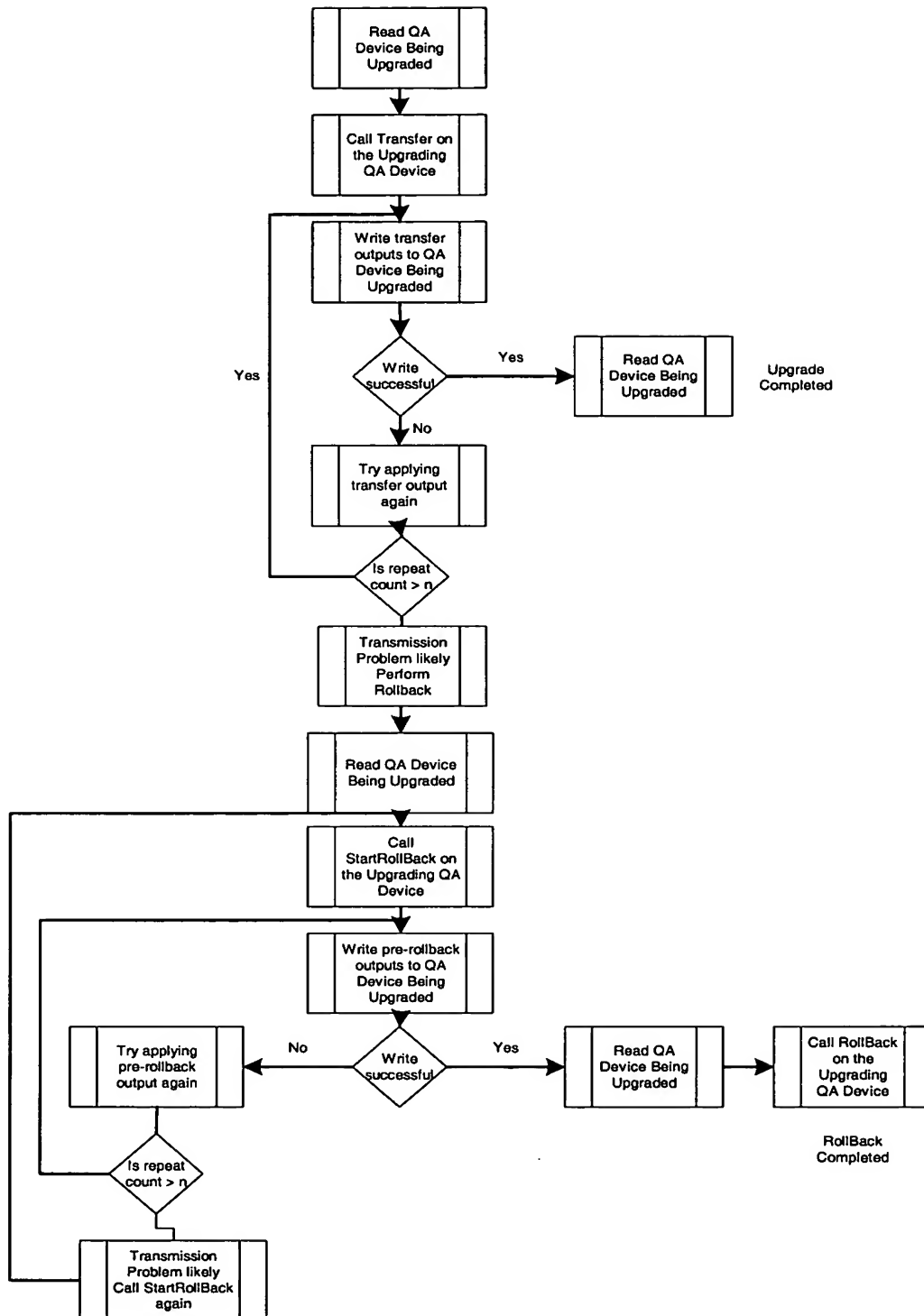


FIG. 383

313/331

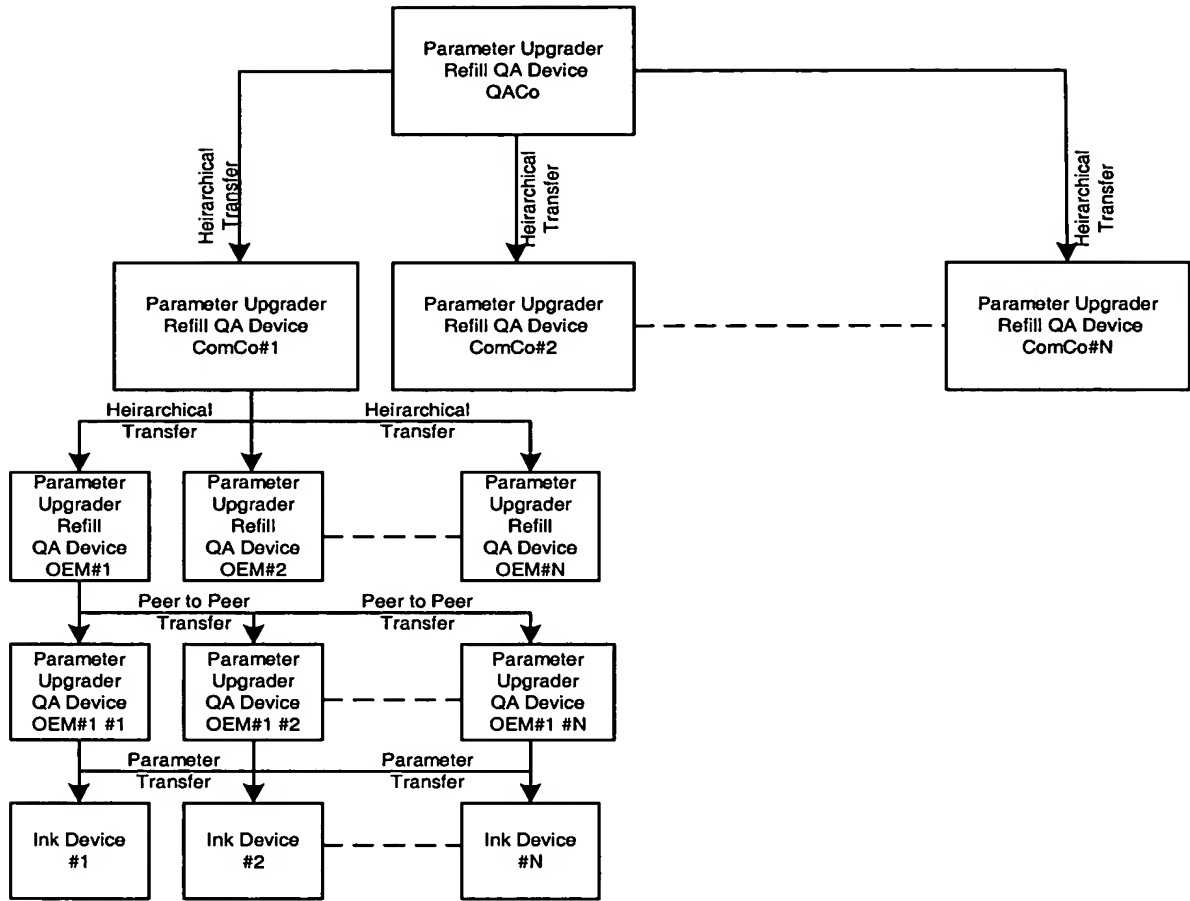


FIG. 384

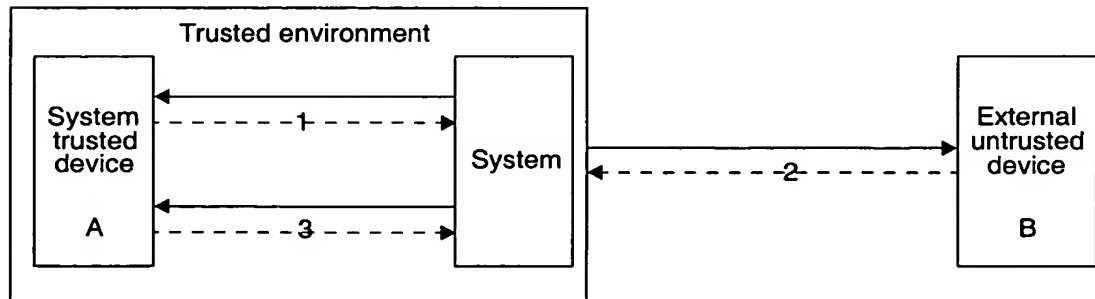
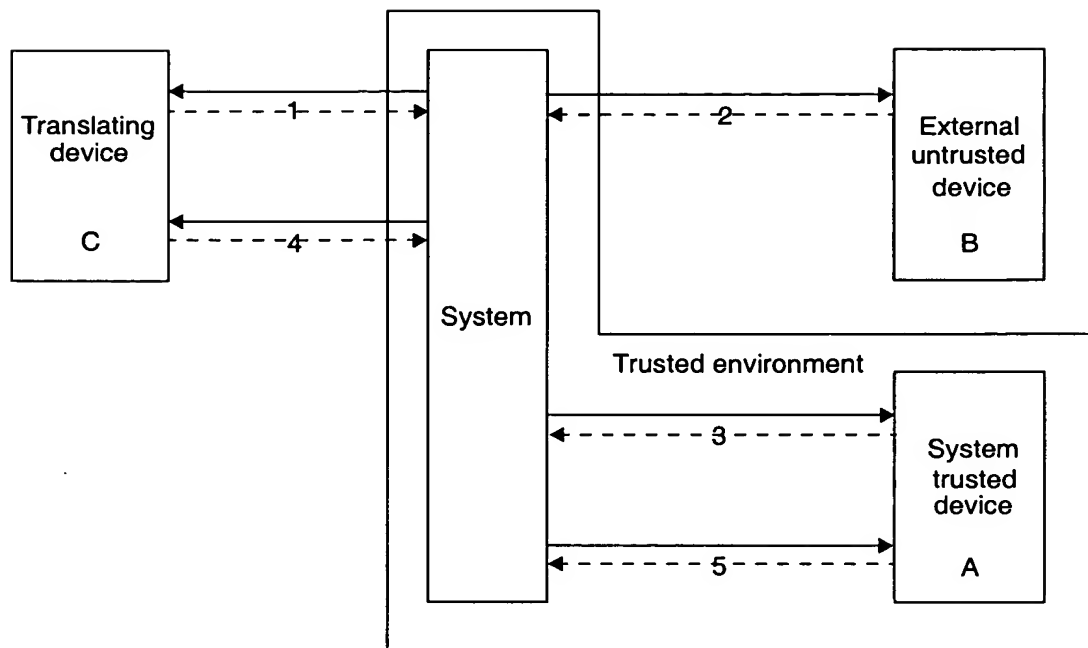


FIG. 385

*FIG. 386*

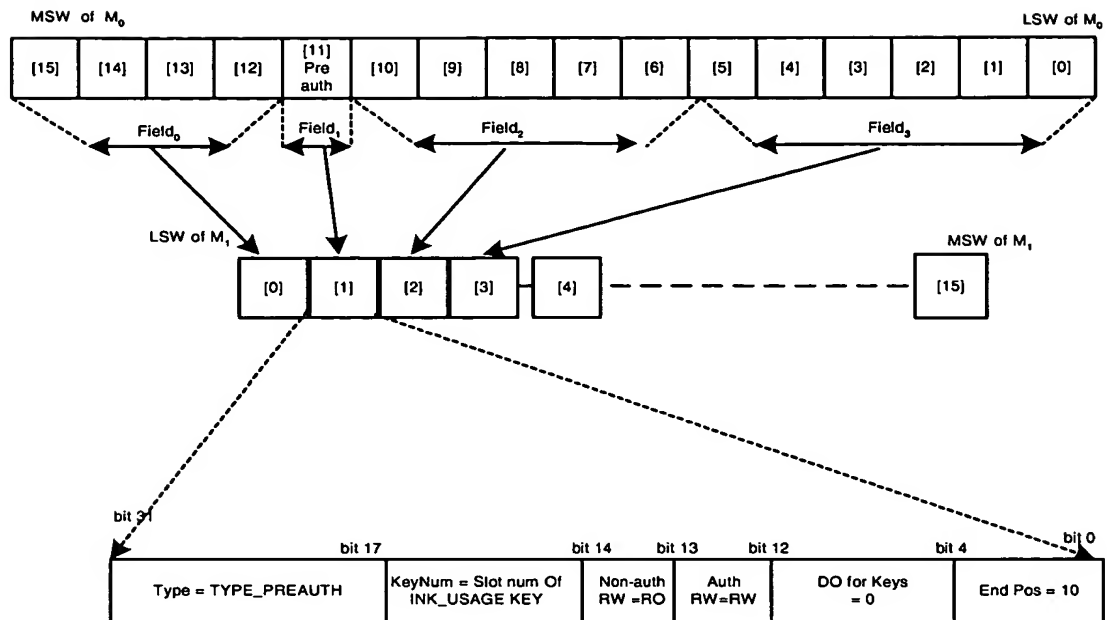


FIG. 387

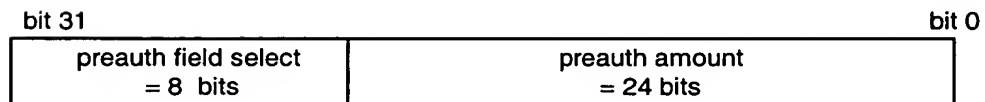


FIG. 388

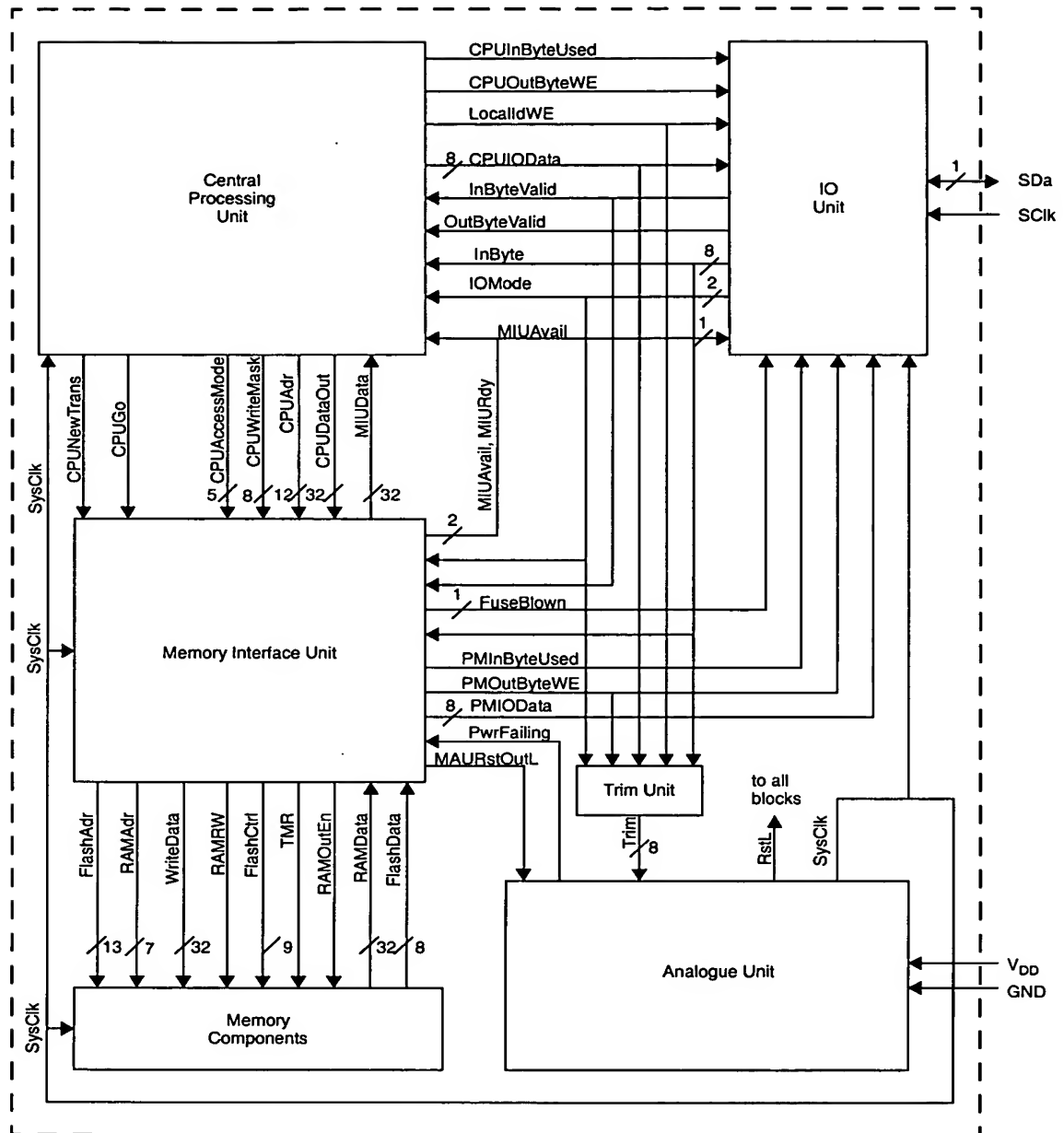


FIG. 389

317/331

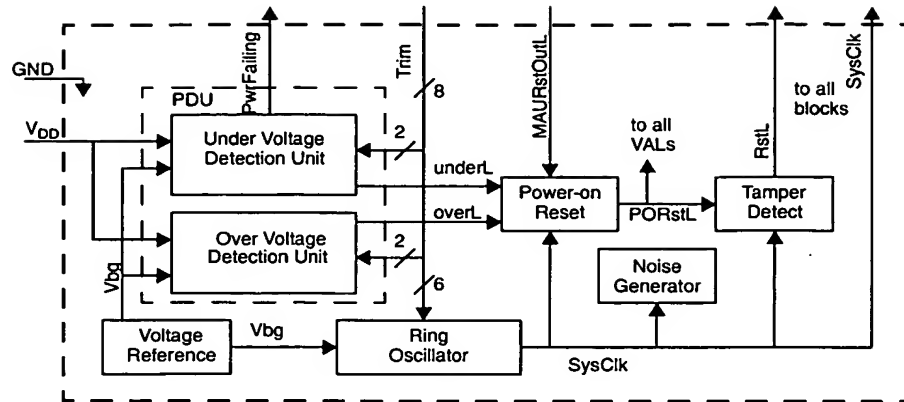


FIG. 390

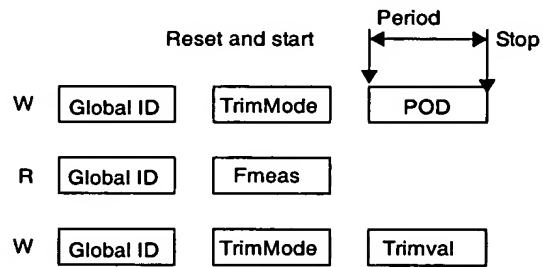


FIG. 391

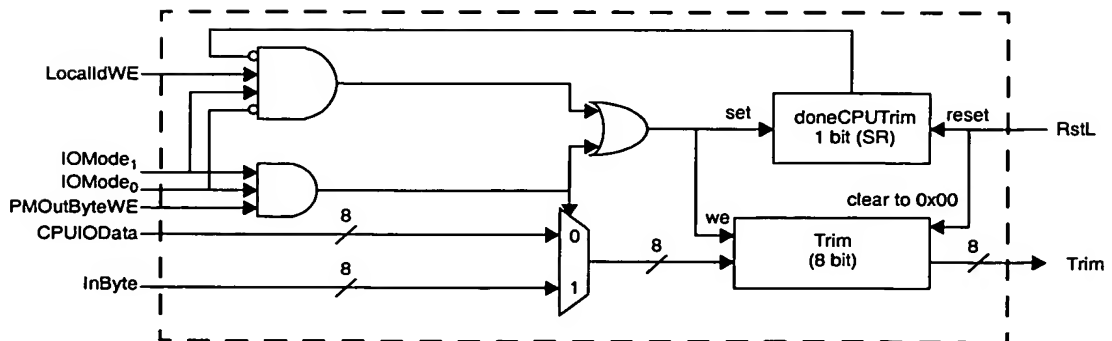


FIG. 392

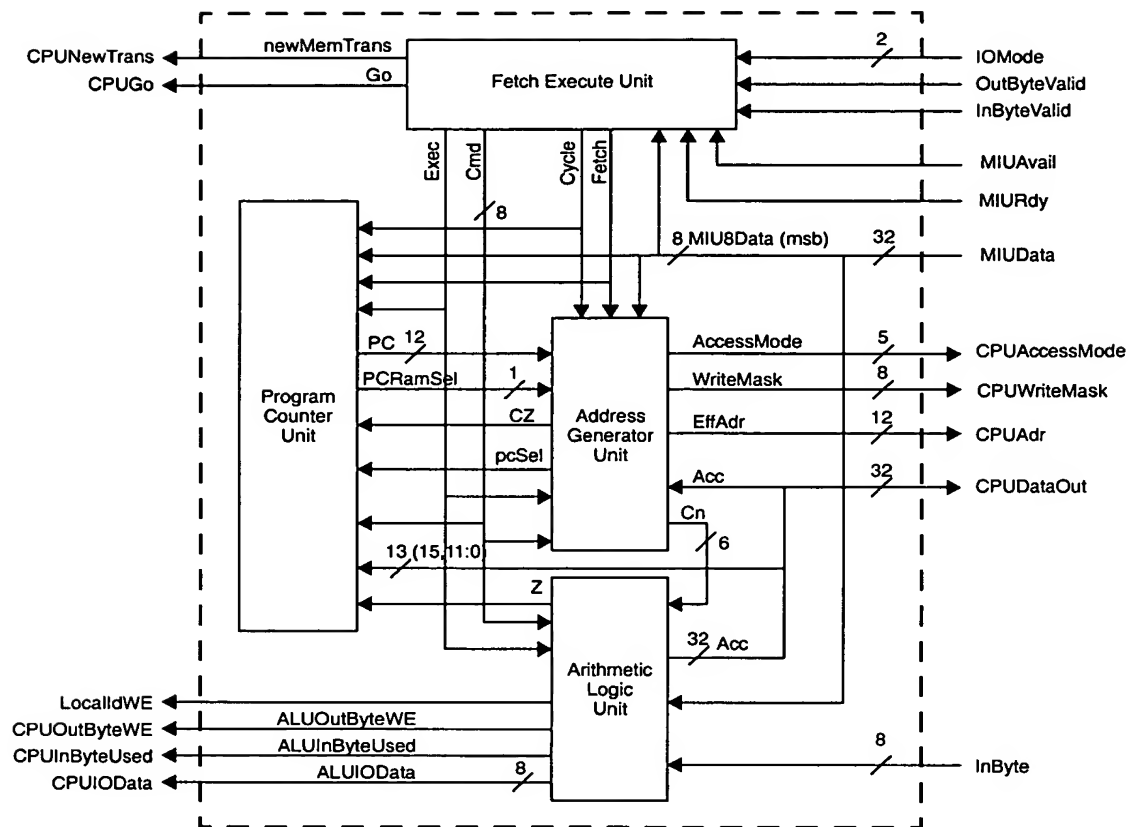


FIG. 393

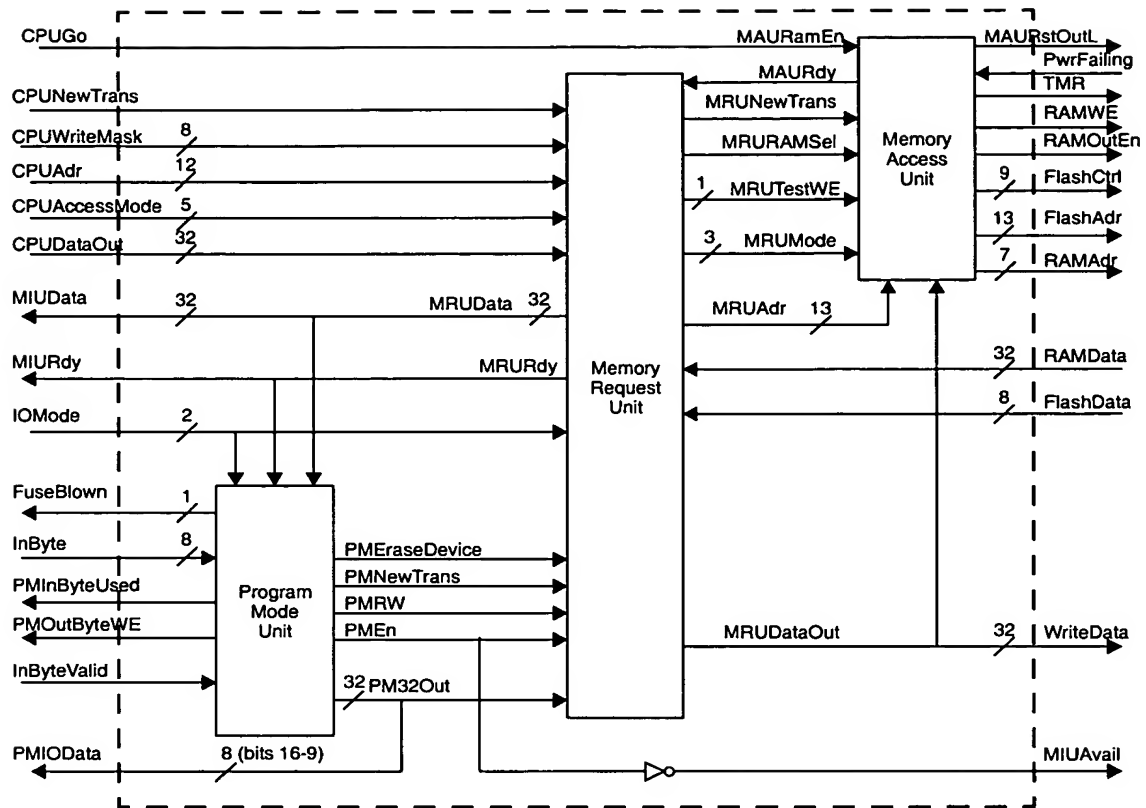


FIG. 394

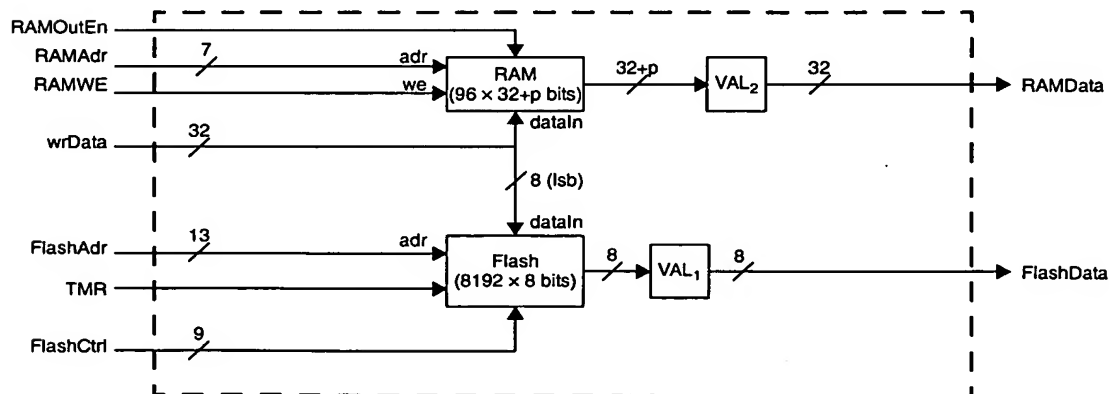


FIG. 395

320/331

Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
PriID6	PriID5	PriID4	PriID3	PriID2	PriID1	PriID0	R/*W 0 = write 1 = read

FIG. 396

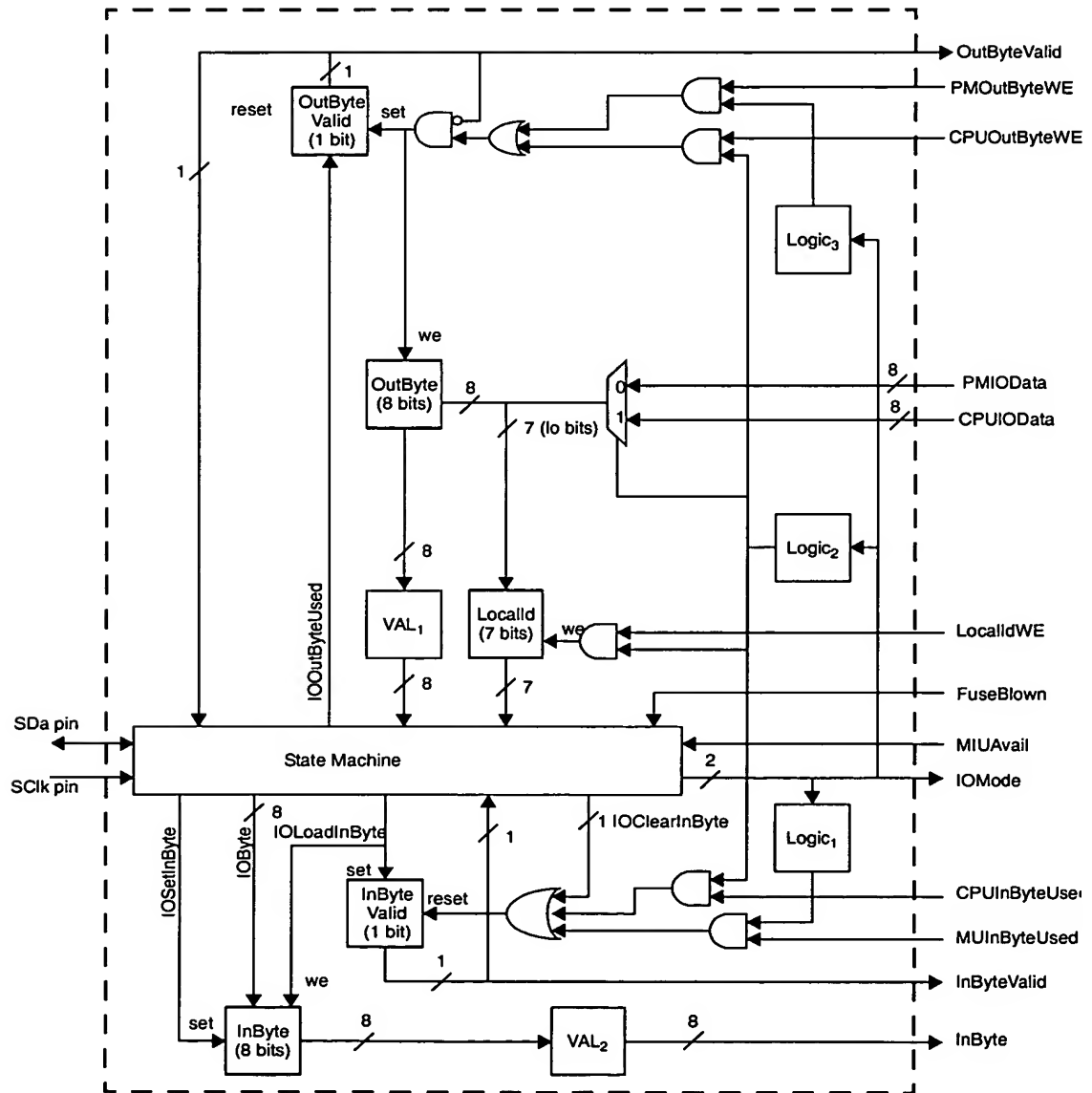


FIG. 397

321/331

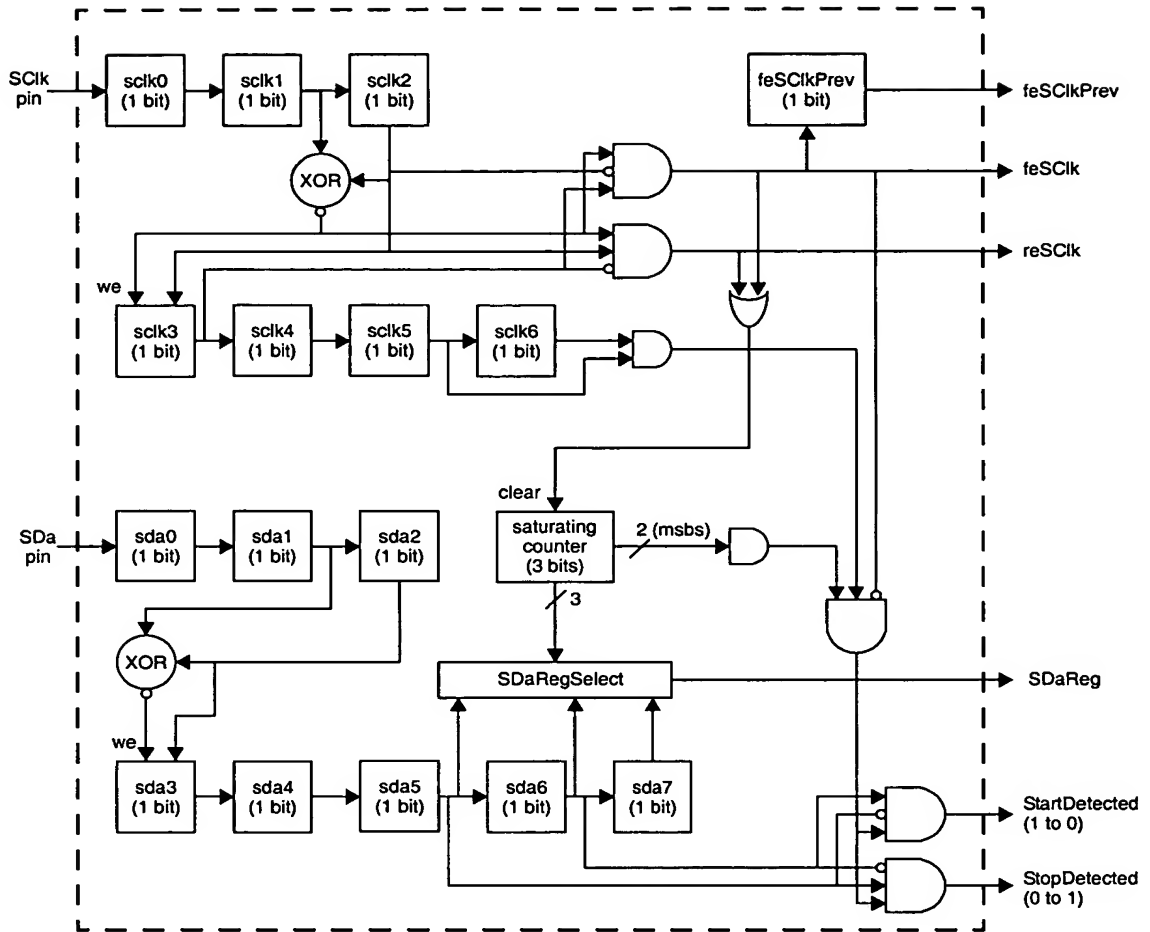


FIG. 398

322/331

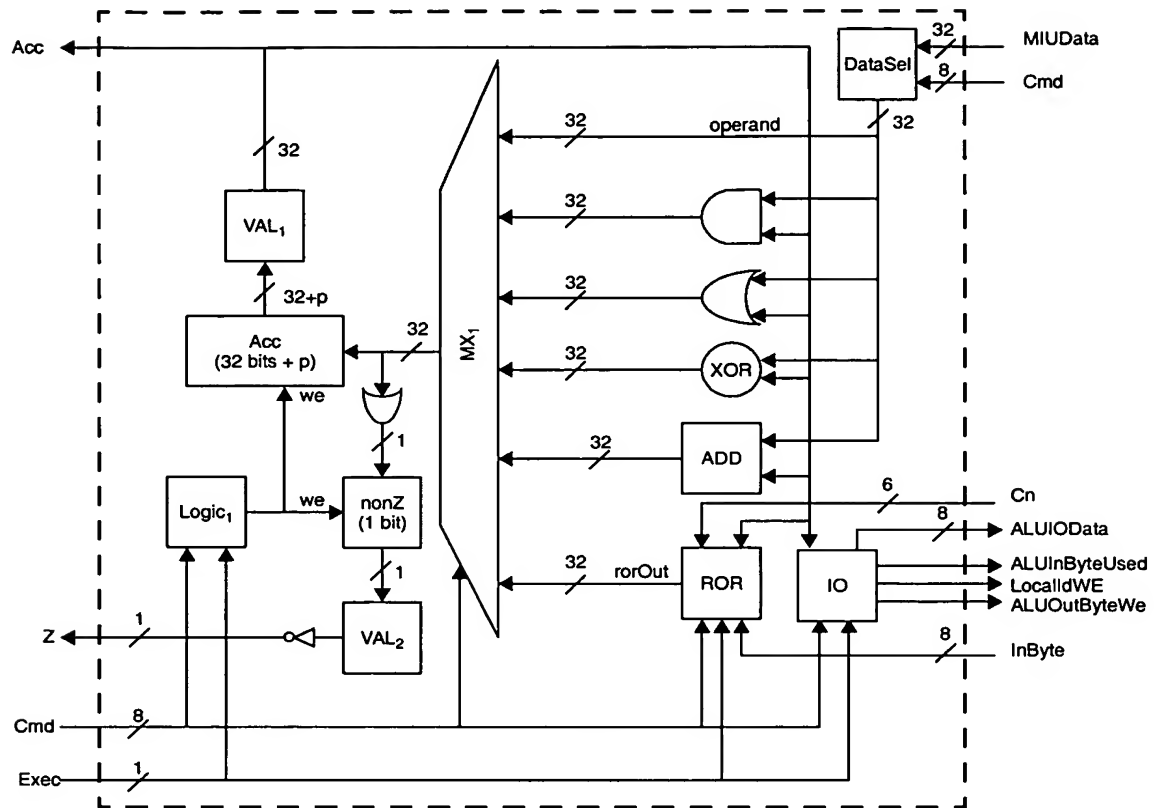


FIG. 399

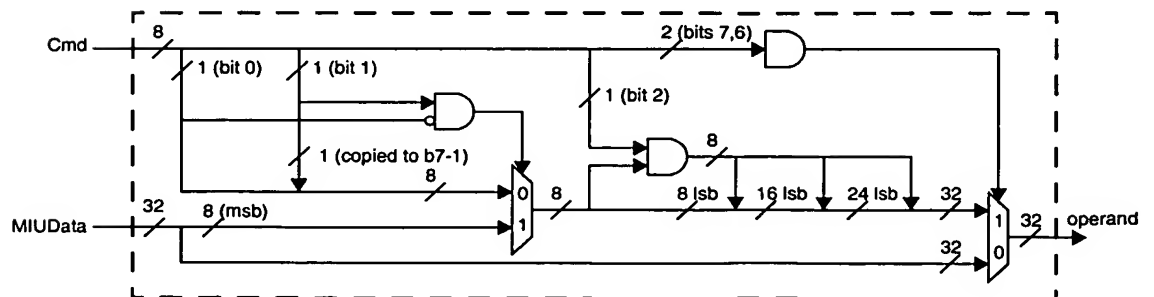


FIG. 400

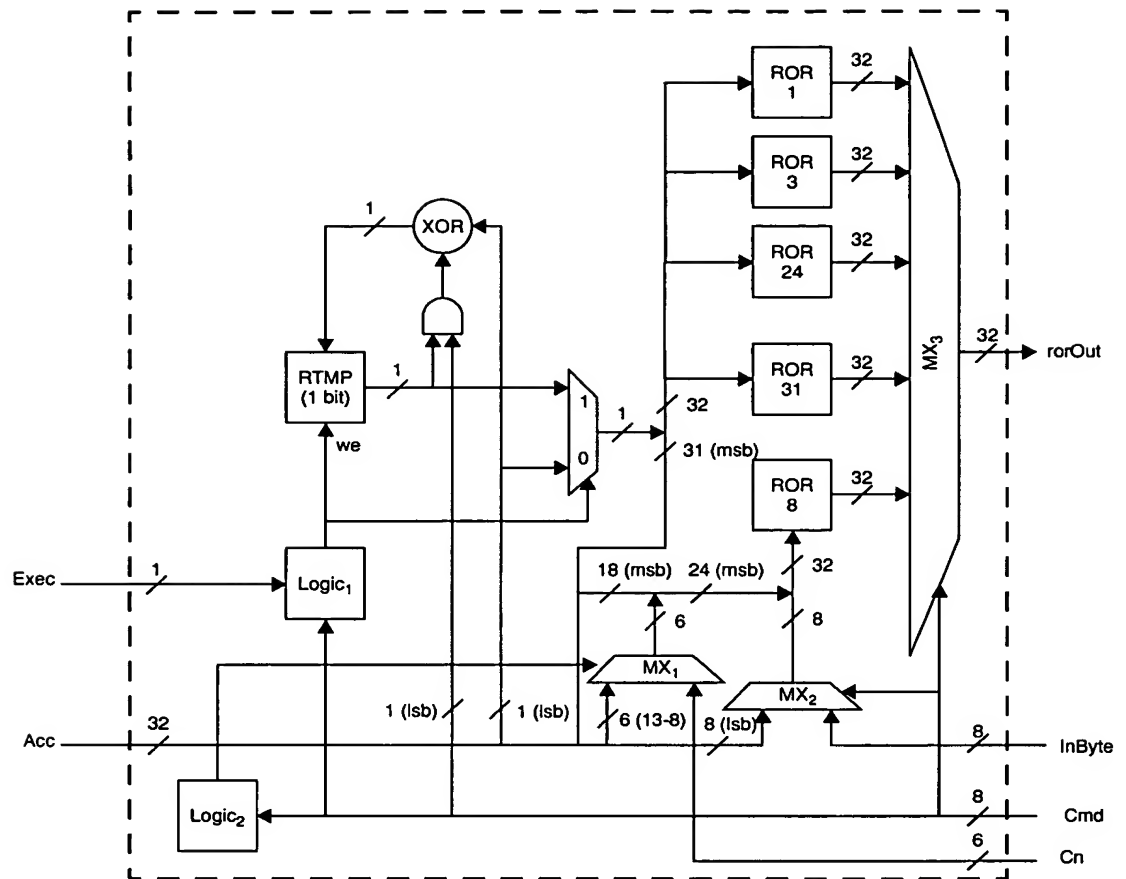


FIG. 401

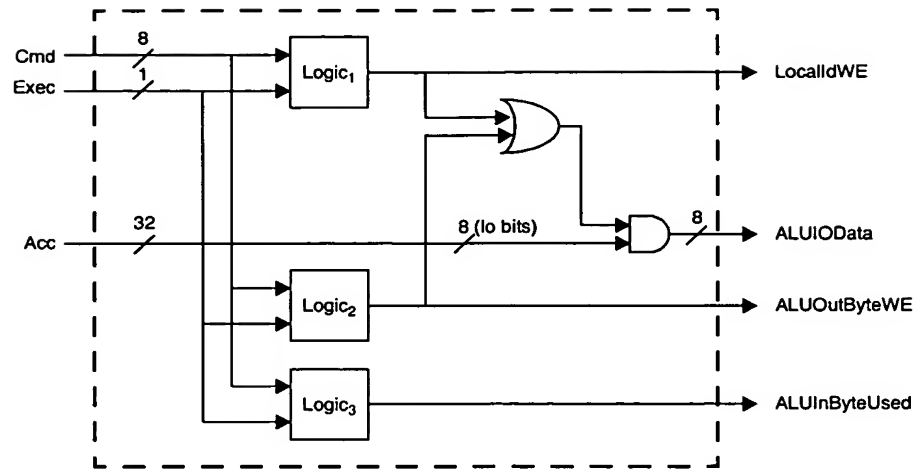


FIG. 402

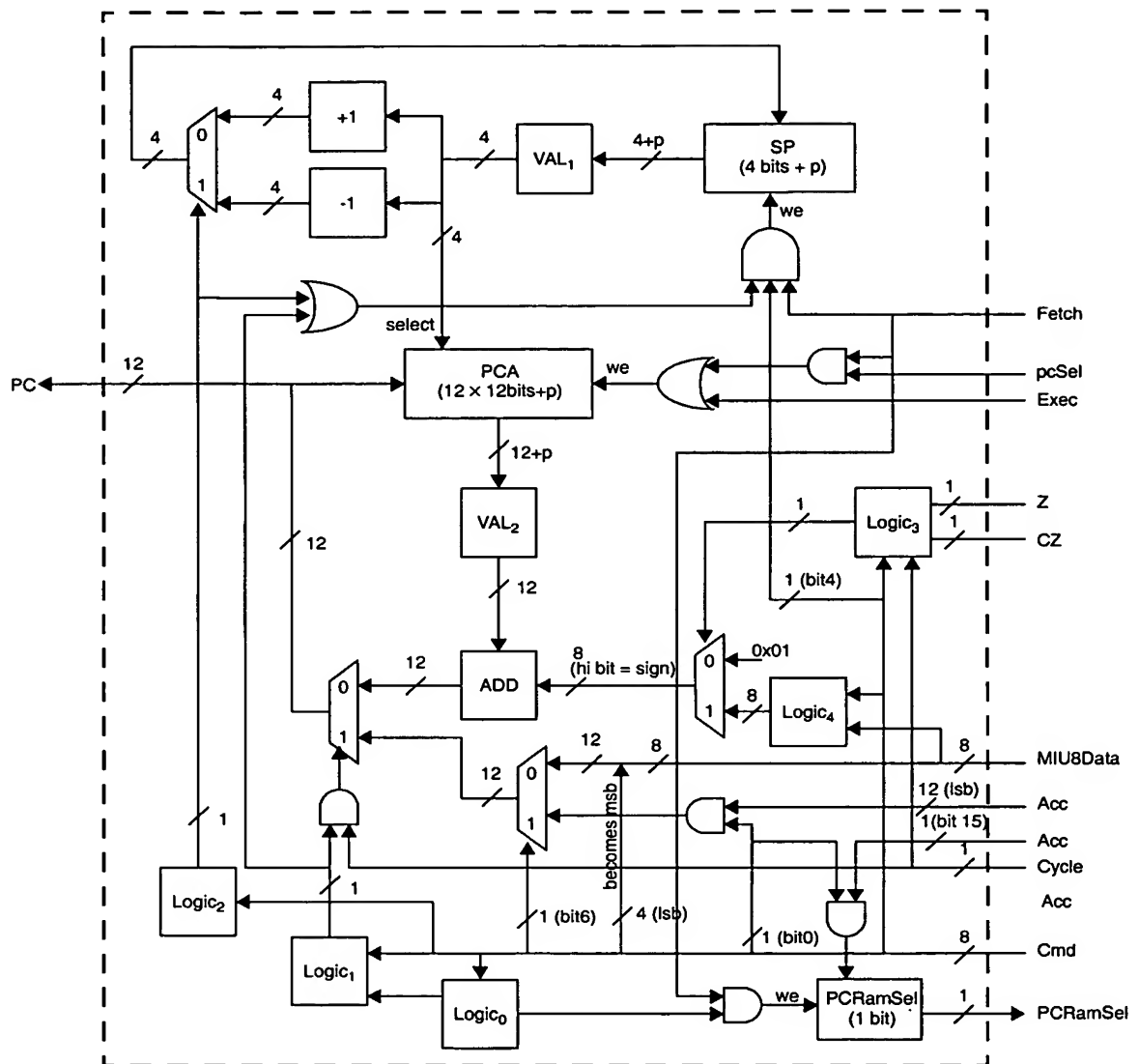


FIG. 403

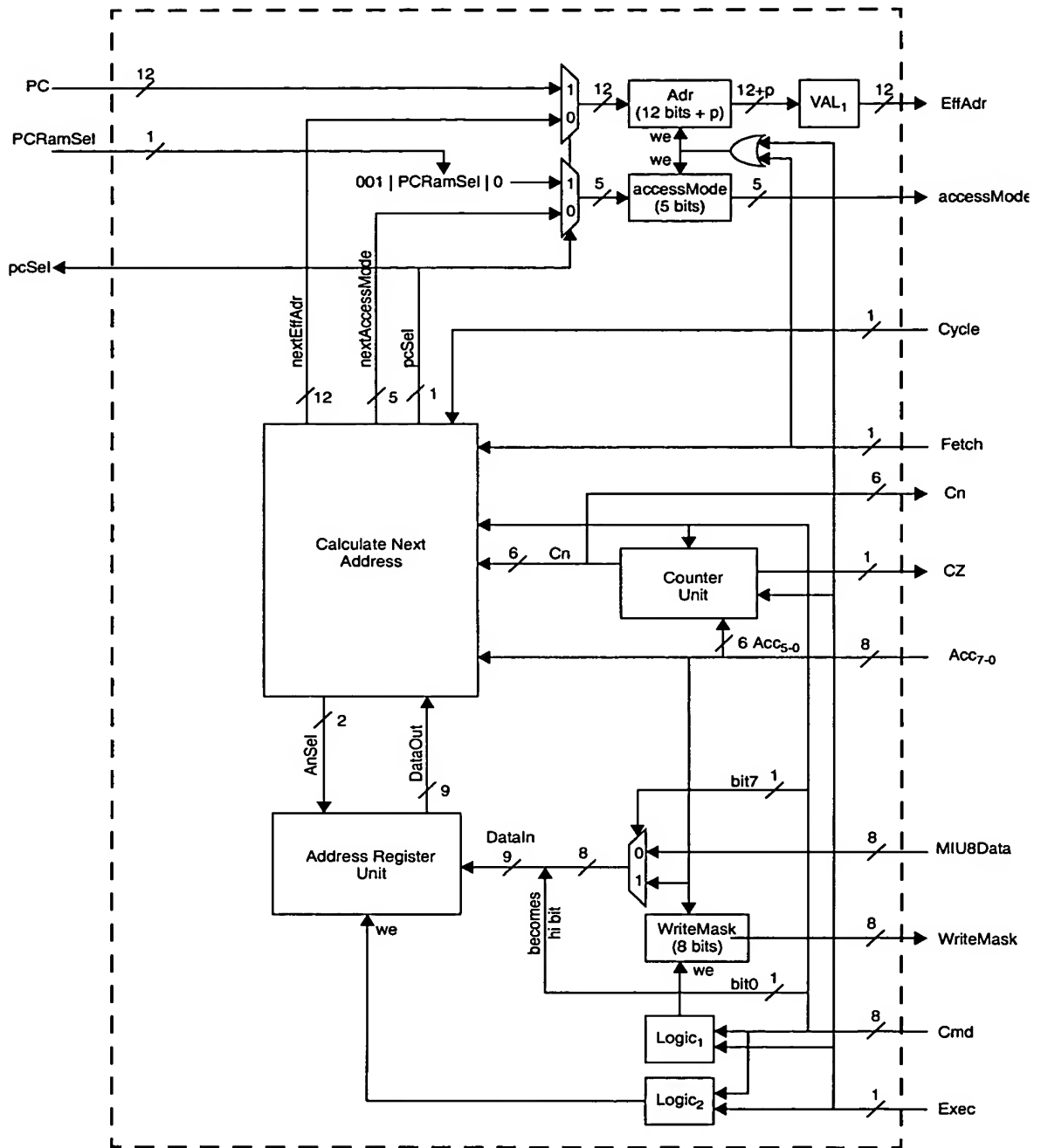


FIG. 404

327/331

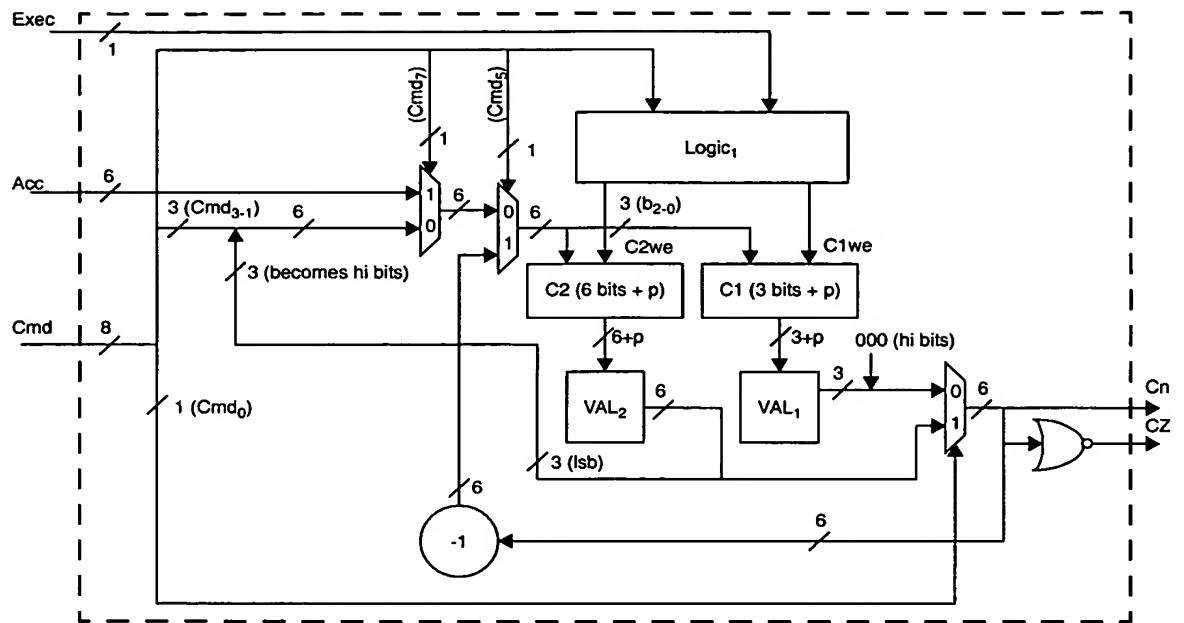


FIG. 405

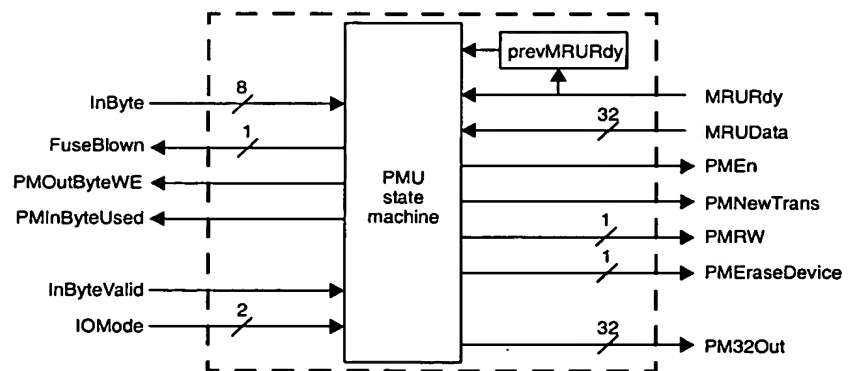


FIG. 406

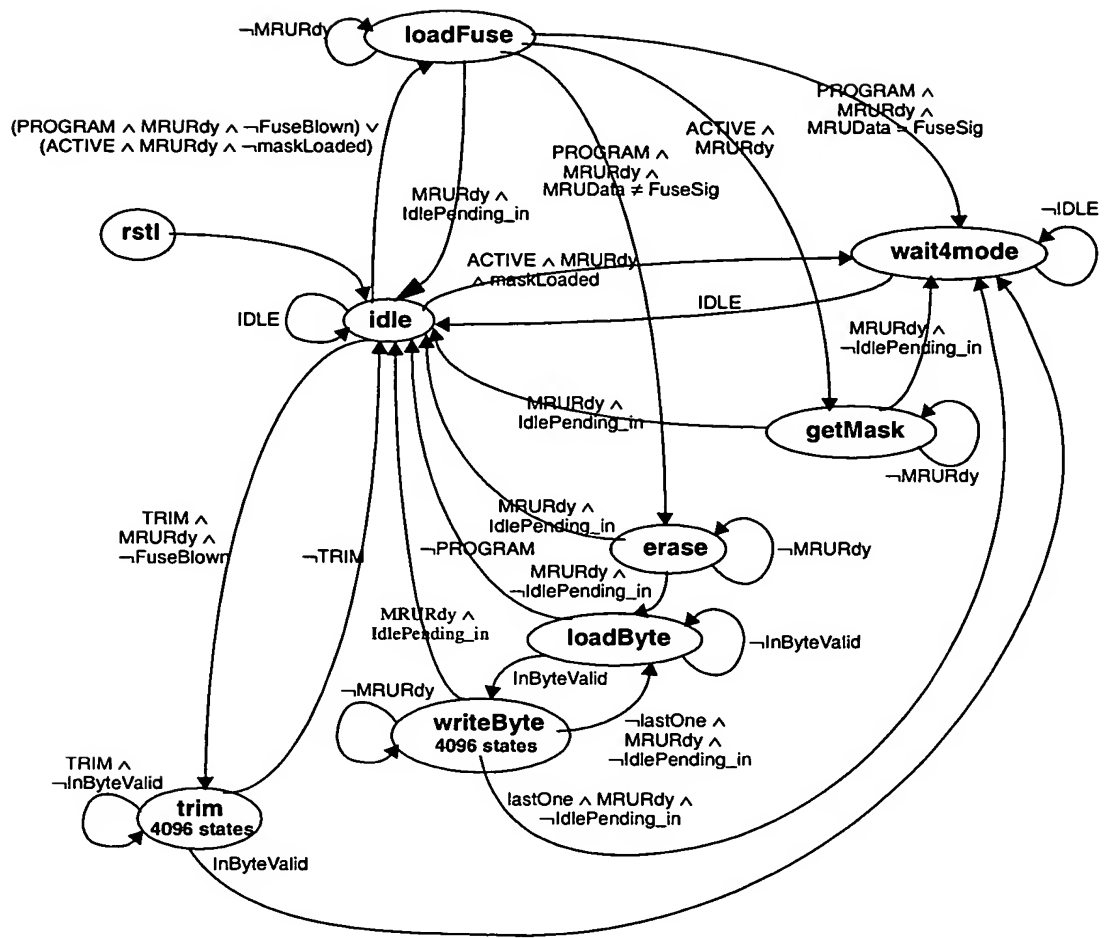


FIG. 407

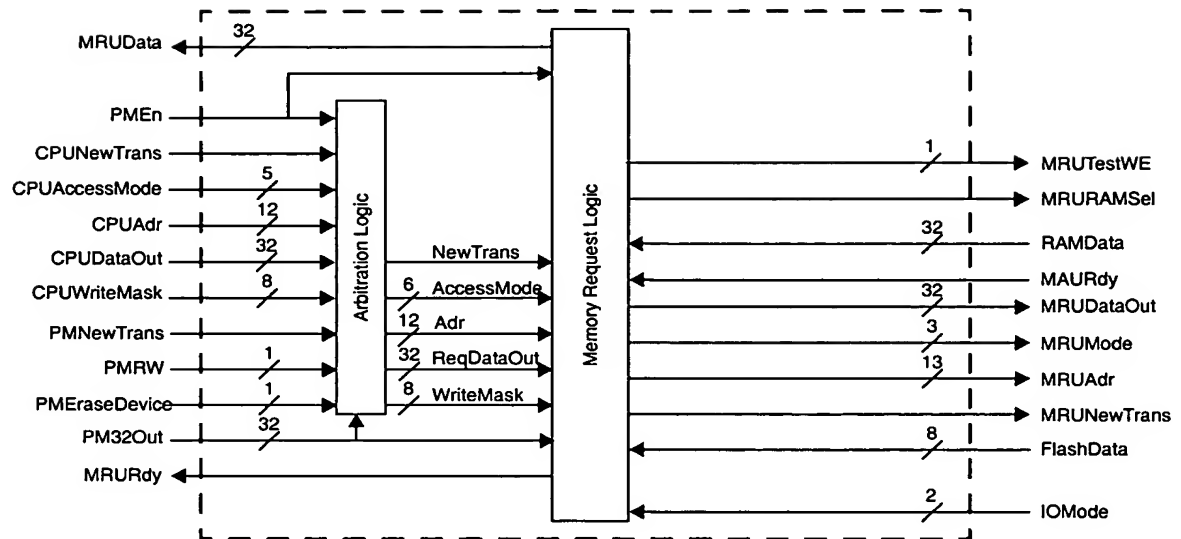


FIG. 408

330/331

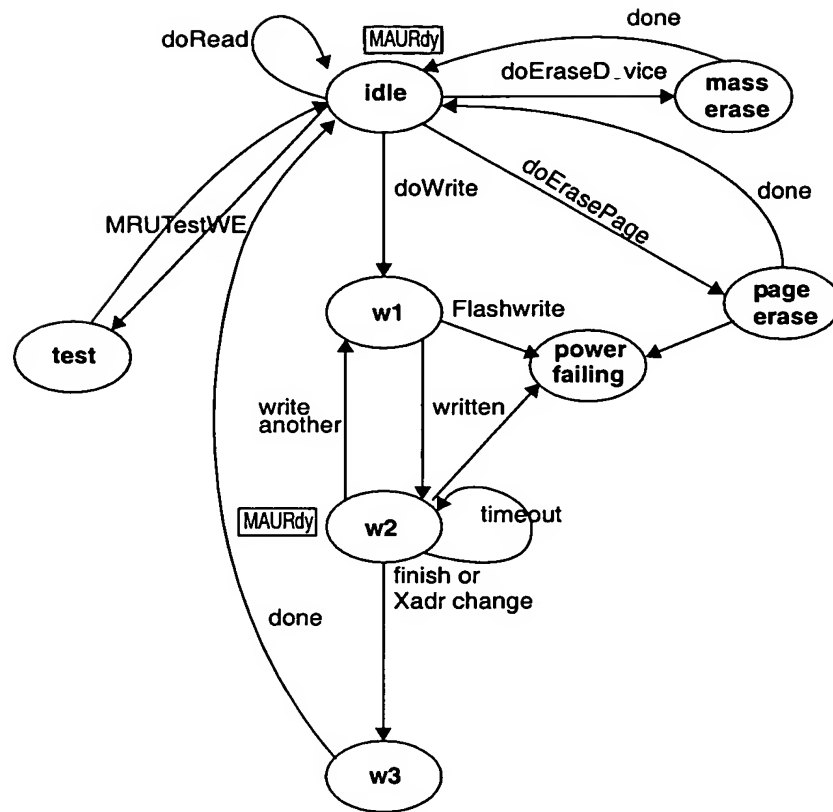


FIG. 409

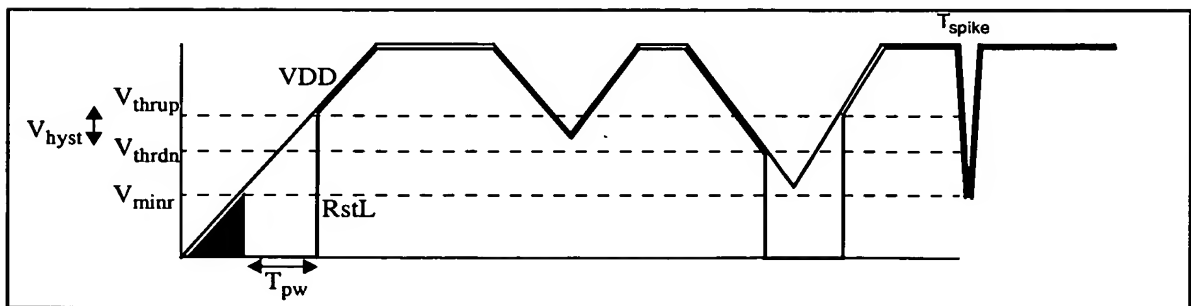


FIG. 410

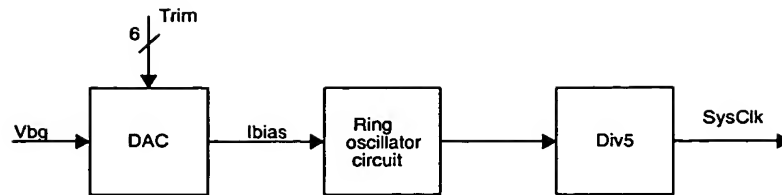


FIG. 411

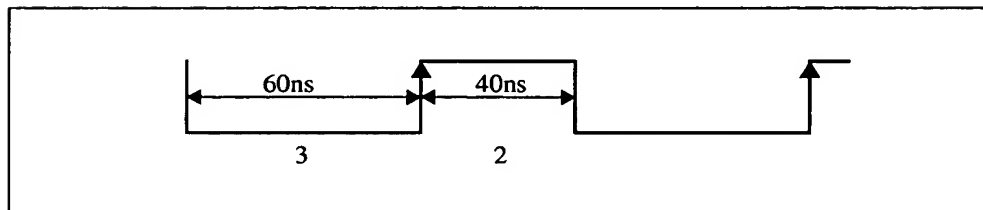


FIG. 412

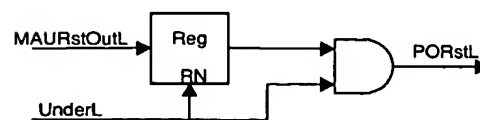


FIG. 413